

New Hampshire Job Outlook and Locator by Industry and Occupation

base year 2014 to
projected year 2024



State of New Hampshire
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Introduction

New Hampshire Job Outlook and Locator is a resource for job seekers, students, program planners, and career changers. More than 760 occupations are included, with detailed descriptions, estimated and projected employment, projected growth rate and openings, wages, training requirements, and more.

Job Outlook and Locator can help users “locate” the top industries that employed a particular occupation in 2014, as each occupation lists the top six industries in descending order of employment based on the share of total jobs in 2014.

- Job seekers may focus a job search by seeking opportunities in the industries most likely to employ workers in their occupation.
- Employment counselors may use this information to help clients explore new employment possibilities.
- Students may refer to training requirements and projections to plan for a future career.
- Businesses may determine which industries are competing for workers in the occupations they are looking to employ.

About the Data

Employment data in the *Job Locator* are based on the 2014-2024 projections of industries and occupations developed by New Hampshire Employment Security’s Economic and Labor Market Information Bureau for the base year of 2014 and projected to 2024.

Projections are based on historical trends and current knowledge. No assumptions are made about business cycle fluctuations, natural disasters, or other catastrophic events. It is assumed that there will be no major change in technology, productivity, or state or federal government policy.

Employment by industry data, known as staffing patterns, and wage data are obtained from the Bureau’s Occupational Employment Statistics (OES) Program. This program gathers data through a semi-annual mail and telephone survey of employers in cooperation with the US Department of Labor. The average (mean) wage for the occupation is provided as an hourly rate for most occupations. For occupations that do not have a standard work week, such as teachers or airline pilots, an annual average wage is provided.

Education, Work Experience, and Training

Educational Requirements

Similar to the previous method of identifying education and training requirements, this category describes the typical level of education most workers need for an entry-level position in the occupation. The eight educational levels are:

- Doctoral (PhD) or professional degree (i.e., MD, DD, JD, DC)
- Master's degree (i.e., MA, MS, MEd)
- Bachelor's degree (i.e., BS, BA, BFA)
- Associate's degree (i.e., AS, AA)
- Postsecondary non-degree award (program completion, i.e., CNA, cosmetologist)
- Some college, no degree
- High school diploma or equivalent (GED)
- No formal educational credential

Work Experience

Some occupations require related work experience as an entry-level qualification. Frequently, these occupations are first-line supervisory positions, where the worker performs the same job tasks as the workers under their supervision, such as retail supervisors, marketing managers, or construction managers. Non-supervisory workers may also have an experience requirement, such as restaurant cooks and industrial truck and tractor operators. The work experience requirement levels are less than five years, five years or more, or none.

Job Training

This category identifies any additional training or preparation typically needed to gain competency in the occupation once the worker is employed. This type of training is occupation-specific, not job-specific, meaning skills can be transferred to another job in the same occupation. The job training categories are internships or residencies, apprenticeship, long-term (more than 12 months) on-the-job training, moderate-term (between one and 12 months) on-the-job training, short-term (one month or less) on-the-job training, or none.

Occupational Descriptors

Job Outlook & Locator includes **Occupational Descriptors**, a concept that uses four categories (very favorable, favorable, less favorable, and not favorable) to summarize the expected prospects for an occupation. The descriptors are based on two factors: the projected growth rate and the projected number of openings.

Growth Rate

Occupations are assigned one of five categories based on the projected growth rate (annualized percentage change over ten years) in employment between 2014 and 2024.

- ▶ **Very Low:** Growth rate of 0.0 percent or less
- ▶ **Low:** Growth rate of 0.1 percent to 4.0 percent
- ▶ **Average:** Growth rate of 4.1 percent to 7.0 percent
- ▶ **High:** Growth rate of 7.1 percent to 12.0 percent
- ▶ **Very High:** Growth rate greater than 12.0

Openings

Occupations are assigned to one of five categories based on the number of projected average annual openings from both growth and replacement needs.

- ▶ **Very Low:** Zero openings
- ▶ **Low:** One to five openings
- ▶ **Average:** Six to 10 openings
- ▶ **High:** 11 to 49 openings
- ▶ **Very High:** 50 or more openings

Descriptor Categories

The five growth rate categories are combined with the five categories representing the number of projected openings to produce 25 possible results. These results are assigned one of four descriptive labels:

- ↑ **Very Favorable:** Those occupations that combine high growth and a large number of openings are described as very favorable and are expected to provide the best opportunities through 2024
- ↗ **Favorable:** Favorable occupations may have a low growth rate, but only if the projected openings are high or very high. An occupation may be designated as favorable if the growth rate is better than average but the number of openings is below average. Occupations with an average growth rate and average or better openings are also considered to be favorable.
- ↘ **Less Favorable:** These occupations have better expected opportunities than the least favorable category, either because of a higher growth rate or more projected openings.
- ↓ **Not Favorable:** Occupations in this category have a negative growth rate and fewer than four annual openings per year. These occupations are not expected to be significant sources of jobs through 2024

How to Use the Job Outlook & Locator

Occupations are listed numerically by six-digit Standard Occupational Code (SOC) or refer to the alphabetical index in the back of the book to select an occupation. Use the example below as a guide.

15-1141 Database Administrators

Administer, test, and implement computer databases, applying knowledge of database management systems. Coordinate changes to computer databases. May plan, coordinate, and implement security measures to safeguard computer databases. *Examples: Database Management Systems Specialist; Database Security Administrator*

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	\$ 40.45
2014 Estimated Employment:	507
2024 Projected Employment:	572
Growth Rate, 2014-2024:	12.8%
Annual Openings:	17

Industry	2014 Share	2024 Share
524 Insurance Carriers & Related Activities	16.0%	15.6%
State Government, ex. Education and Hospitals	10.5%	9.8%
5416 Management & Technical Consulting Svc	10.1%	11.9%
6113 Colleges and Universities	6.9%	6.5%
523 Financial Investment and Related Activities	n	n
5415 Computer Systems Design and Rel Services	n	n

- 1 SOC code and Occupational Title:** For each occupation there is a six-digit numeric code designed to logically organize occupational data.
- 2 Occupational Descriptor:** A designation that summarizes the projected growth prospects for this occupation. See page iv for a detailed explanation of descriptors.
- 3 Occupational Description:** A brief description of the occupation and its duties, along with examples of possible job titles.
- 4 Education, Experience and Training:** Three categories that identify the education, work experience, and job training required for a worker to gain competency in a specific occupation. See page iv for a complete description and examples of education categories.
- 5 2015 Mean (Average) Wage in New Hampshire:** Hourly wage based on the May 2015 Occupational Employment and Wages survey. For most occupations, this will be an hourly wage. For occupations with a non-standard workweek (teaching occupations, for example), an annual wage is given. An "n/a" indicates that wage is not available.
2014 Estimated Employment: Number of workers estimated to be employed in an occupation in 2014.
2024 Projected Employment: Number of workers projected to be employed in an occupation in 2024.
Growth Rate, 2014-2024: Percent change in employment from 2014 to 2024.
Annual Openings: Number of projected openings from growth and replacement needs, on an annual average basis, during the ten-year projections period.
- 6 Industry and NAICS code:** A list of industries employing workers in this occupation, listed in decreasing order of 2014 share of employment. Up to six industries can be listed, identified by the corresponding North American Industrial Classification System (NAICS) code.
- 7** An 'n' indicates that the data do not meet disclosure standards.

11-1011 Chief Executives



Determine and formulate policies and provide the overall direction of companies or private and public sector organizations within the guidelines set up by a board of directors or similar governing body. Plan, direct, or coordinate operational activities at the highest level of management with the help of subordinate executives and staff managers. *Examples: Board Member; Chief Operating Officer; President*

Training Category: Bachelor | 5+ years | none

2015 Average Wage:	\$ 88.52
2014 Estimated Employment:	1,452
2024 Projected Employment:	1,457
Growth Rate, 2014-2024:	0.3%
Annual Openings:	25

Industry	2014 Share	2024 Share
Self-Employed Workers	21.8%	23.1%
6111 Elementary and Secondary Schools	6.9%	6.4%
5611 Office Administrative Services	4.2%	4.5%
334 Computer and Electronic Product Mfg	4.1%	3.5%
5416 Management & Technical Consulting Svc	4.0%	4.8%
551 Management of Companies and Enterprises	3.5%	3.3%

11-1021 General and Operations Managers



Plan, direct, or coordinate the operations of companies or public and private sector organizations. Duties and responsibilities include formulating policies, managing daily operations, and planning the use of materials and human resources, but are too diverse and general in nature to be classified in any one functional area of management or administration, such as personnel, purchasing, or administrative services. *Examples: Industrial Organization Manager; District Manager; Department Store General Manager*

Training Category: Bachelor | 5+ years | none

2015 Average Wage:	\$ 59.96
2014 Estimated Employment:	8,837
2024 Projected Employment:	9,552
Growth Rate, 2014-2024:	8.1%
Annual Openings:	296

Industry	2014 Share	2024 Share
423 Merchant Wholesalers, Durable Goods	4.8%	4.6%
441 Motor Vehicle and Parts Dealers	4.3%	4.2%
722 Food Services and Drinking Places	4.1%	4.1%
551 Management of Companies and Enterprises	3.6%	3.5%
238 Specialty Trade Contractors	3.3%	3.3%
445 Food and Beverage Stores	3.1%	3.2%

11-1031 Legislators



Develop laws and statutes at the local level. Include only elected officials. Excludes state legislators. *Example: City Council Member*

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	\$20,439
2014 Estimated Employment:	313
2024 Projected Employment:	311
Growth Rate, 2014-2024:	-0.6%
Annual Openings:	7

Industry	2014 Share	2024 Share
Local Government, ex. Education	100.0%	100.0%

11-2011 Advertising and Promotions Managers



Plan and direct advertising policies and programs or produce collateral materials, such as posters, contests, coupons, or giveaways, to create extra interest in the purchase of a product or service for a department, an entire organization, or on an account basis. *Examples: Campaign Director; Circulation Director*

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	\$ 45.92
2014 Estimated Employment:	173
2024 Projected Employment:	184
Growth Rate, 2014-2024:	6.4%
Annual Openings:	7

Industry	2014 Share	2024 Share
448 Clothing and Clothing Accessories Stores	n	n
515 Broadcasting (except Internet)	n	n
519 Other Information Services	n	n
5418 Advertising and Related Services	n	n
711 Performing Arts and Spectator Sports	n	n
722 Food Services and Drinking Places	n	n

11-2021 Marketing Managers



Determine the demand for products and services offered by a firm and its competitors and identify potential customers. Develop pricing strategies with the goal of maximizing the firm's profits or share of the market while ensuring the firm's customers are satisfied. Oversee product development or monitor trends that indicate the need for new products and services. *Examples: Fashion Coordinator; Marketing Director*

Training Category: Bachelor | 5+ years | none

2015 Average Wage:	\$ 60.74
2014 Estimated Employment:	1,150
2024 Projected Employment:	1,251
Growth Rate, 2014-2024:	8.8%
Annual Openings:	37

Industry	2014 Share	2024 Share
551 Management of Companies and Enterprises	13.7%	14.6%
334 Computer and Electronic Product Mfg	13.7%	14.6%
5415 Computer Systems Design and Rel Services	7.4%	8.1%
425 Electronic Markets and Agents/Brokers	6.8%	7.0%
511 Publishing Industries	5.4%	5.2%
339 Miscellaneous Manufacturing	3.5%	3.1%

11-2022 Sales Managers



Direct the actual distribution or movement of a product or service to the customer. Coordinate sales distribution by establishing sales territories, quotas, and goals and establish training programs for sales representatives. Analyze sales statistics gathered by staff to determine sales potential and inventory requirements and monitor the preferences of customers. *Examples: Director of Sales; Export Manager; Regional Sales Manager*

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	\$ 64.75
2014 Estimated Employment:	2,007
2024 Projected Employment:	2,145
Growth Rate, 2014-2024:	6.9%
Annual Openings:	62

Industry	2014 Share	2024 Share
425 Electronic Markets and Agents/Brokers	18.3%	19.4%
441 Motor Vehicle and Parts Dealers	10.9%	11.0%
551 Management of Companies and Enterprises	7.5%	7.4%
423 Merchant Wholesalers, Durable Goods	4.6%	4.5%
5415 Computer Systems Design and Rel Services	4.6%	5.1%
523 Financial Investment and Related Activities	n	n

11-2031 Public Relations and Fundraising Managers



Plan and direct public relations programs designed to create and maintain a favorable public image for employer or client; or if engaged in fundraising, plan and direct activities to solicit and maintain funds for special projects and nonprofit organizations. *Examples: Fundraising Director; Public Information Director; Publicity Director*

Training Category: Bachelor | 5+ years | none

2015 Average Wage:	\$ 52.96
2014 Estimated Employment:	378
2024 Projected Employment:	404
Growth Rate, 2014-2024:	6.9%
Annual Openings:	16

Industry	2014 Share	2024 Share
6113 Colleges and Universities	29.9%	29.7%
813 Membership Organizations & Associations	13.0%	12.9%
551 Management of Companies and Enterprises	10.9%	10.6%
622 Hospitals	5.8%	5.7%
5418 Advertising and Related Services	n	n
6111 Elementary and Secondary Schools	n	n

11-3011 Administrative Services Managers



Plan, direct, or coordinate supportive services of an organization, such as recordkeeping, mail distribution, telephone operator/receptionist, and other office support services. May oversee facilities planning and maintenance and custodial operations. *Example: Space Officer*

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	\$ 41.87
2014 Estimated Employment:	642
2024 Projected Employment:	702
Growth Rate, 2014-2024:	9.4%
Annual Openings:	18

Industry	2014 Share	2024 Share
524 Insurance Carriers & Related Activities	10.0%	9.7%
6113 Colleges and Universities	9.7%	9.4%
621 Ambulatory Health Care Services	7.6%	9.4%
6111 Elementary and Secondary Schools	7.3%	6.8%
622 Hospitals	6.7%	6.4%
551 Management of Companies and Enterprises	4.5%	4.3%

11-3021 Computer and Information Systems Managers 

Plan, direct, or coordinate activities in such fields as electronic data processing, information systems, systems analysis, and computer programming. *Examples: Computer Programming Manager; Data Systems Manager*

Training Category: Bachelor | 5+ years | none

2015 Average Wage:	\$ 63.53
2014 Estimated Employment:	1,819
2024 Projected Employment:	2,127
Growth Rate, 2014-2024:	16.9%
Annual Openings:	53

Industry	2014 Share	2024 Share
5415 Computer Systems Design and Rel Services	20.1%	22.8%
524 Insurance Carriers & Related Activities	9.6%	10.2%
511 Publishing Industries	8.7%	8.5%
551 Management of Companies and Enterprises	6.4%	6.9%
6113 Colleges and Universities	6.2%	5.7%
425 Electronic Markets and Agents/Brokers	4.6%	4.4%

11-3031 Financial Managers 

Plan, direct, and coordinate accounting, investing, banking, insurance, securities, and other financial activities of a branch, office, or department of an establishment. *Examples: Bank Director; Comptroller; Budget Director*

Training Category: Bachelor | 5+ years | none

2015 Average Wage:	\$ 56.45
2014 Estimated Employment:	3,648
2024 Projected Employment:	3,994
Growth Rate, 2014-2024:	9.5%
Annual Openings:	121

Industry	2014 Share	2024 Share
522 Credit Intermediation & Related Activity	17.5%	17.5%
551 Management of Companies and Enterprises	9.0%	8.7%
334 Computer and Electronic Product Mfg	4.6%	4.0%
6113 Colleges and Universities	3.8%	3.7%
524 Insurance Carriers & Related Activities	3.7%	3.4%
523 Financial Investment and Related Activities	n	n

11-3051 Industrial Production Managers 

Plan, direct, or coordinate the work activities and resources necessary for manufacturing products in accordance with cost, quality, and quantity specifications. *Examples: Manufacturing Director; Plant Manager; Production Control Manager*

Training Category: Bachelor | 5+ years | none

2015 Average Wage:	\$ 55.26
2014 Estimated Employment:	823
2024 Projected Employment:	821
Growth Rate, 2014-2024:	-0.2%
Annual Openings:	23

Industry	2014 Share	2024 Share
334 Computer and Electronic Product Mfg	20.8%	20.2%
332 Fabricated Metal Product Manufacturing	15.9%	17.4%
333 Machinery Manufacturing	10.9%	10.7%
326 Plastics & Rubber Products Manufacturing	10.1%	10.0%
325 Chemical Manufacturing	4.4%	4.9%
339 Miscellaneous Manufacturing	4.0%	3.8%

11-3061 Purchasing Managers 

Plan, direct, or coordinate the activities of buyers, purchasing officers, and related workers involved in purchasing materials, products, and services. Include wholesale or retail trade merchandising managers and procurement managers. *Examples: Contracting Manager; Procurement Manager; Purchasing Director*

Training Category: Bachelor | 5+ years | none

2015 Average Wage:	\$ 50.92
2014 Estimated Employment:	354
2024 Projected Employment:	365
Growth Rate, 2014-2024:	3.1%
Annual Openings:	9

Industry	2014 Share	2024 Share
334 Computer and Electronic Product Mfg	23.2%	21.6%
551 Management of Companies and Enterprises	10.7%	10.7%
333 Machinery Manufacturing	9.3%	8.8%
622 Hospitals	6.2%	6.3%
325 Chemical Manufacturing	4.5%	4.9%
332 Fabricated Metal Product Manufacturing	4.5%	4.9%

11-3071 Transportation, Storage, and Distribution Managers



Plan, direct, or coordinate the work activities and resources necessary for manufacturing products in accordance with cost, quality, and quantity specifications. *Examples: Factory Superintendent; Plant Manager*

Training Category: High School | 5+ years | none

2015 Average Wage:	\$ 47.74
2014 Estimated Employment:	359
2024 Projected Employment:	370
Growth Rate, 2014-2024:	3.1%
Annual Openings:	9

Industry	2014 Share	2024 Share
Federal Government, ex. Postal Service	25.4%	24.3%
551 Management of Companies and Enterprises	9.2%	9.2%
424 Merchant Wholesalers, Nondurable Goods	8.1%	8.1%
493 Warehousing and Storage	7.8%	8.1%
811 Repair and Maintenance	7.0%	7.3%
334 Computer and Electronic Product Mfg	n	n

11-3111 Compensation and Benefits Managers



Plan, direct, or coordinate the activities of buyers, purchasing officers, and related workers involved in purchasing materials, products, and services. Include wholesale or retail trade merchandising managers and procurement managers. *Examples: Director of Purchasing; Merchandise Manager*

Training Category: Bachelor | 5+ years | none

2015 Average Wage:	\$ 51.22
2014 Estimated Employment:	100
2024 Projected Employment:	111
Growth Rate, 2014-2024:	11.0%
Annual Openings:	4

Industry	2014 Share	2024 Share
5611 Office Administrative Services	46.0%	48.7%
551 Management of Companies and Enterprises	11.0%	9.9%
441 Motor Vehicle and Parts Dealers	n	n
511 Publishing Industries	n	n
522 Credit Intermediation & Related Activity	n	n
622 Hospitals	n	n

11-3121 Human Resources Managers



Plan, direct, or coordinate transportation, storage, or distribution activities in accordance with governmental policies and regulations. Include logistics managers. *Examples: Schedule Planning Manager; Warehouse Manager*

Training Category: Bachelor | 5+ years | none

2015 Average Wage:	\$ 52.99
2014 Estimated Employment:	513
2024 Projected Employment:	566
Growth Rate, 2014-2024:	10.3%
Annual Openings:	20

Industry	2014 Share	2024 Share
551 Management of Companies and Enterprises	17.7%	19.4%
334 Computer and Electronic Product Mfg	7.6%	6.5%
622 Hospitals	6.8%	6.5%
6113 Colleges and Universities	6.2%	6.0%
Local Government, ex. Education	4.7%	4.6%
333 Machinery Manufacturing	4.1%	3.7%

11-3131 Training and Development Managers



Plan, direct, or coordinate the training and development activities and staff of an organization. *Examples: E-Learning Manager; Employee Development Director; Labor Training Manager*

Training Category: Bachelor | 5+ years | none

2015 Average Wage:	\$ 51.39
2014 Estimated Employment:	97
2024 Projected Employment:	103
Growth Rate, 2014-2024:	6.2%
Annual Openings:	4

Industry	2014 Share	2024 Share
524 Insurance Carriers & Related Activities	27.8%	27.2%
221 Utilities	n	n
334 Computer and Electronic Product Mfg	n	n
551 Management of Companies and Enterprises	n	n
6113 Colleges and Universities	n	n
622 Hospitals	n	n

11-9013 Farmers, Ranchers, and Other Agricultural Managers



Plan, direct, or coordinate the management or operation of farms, ranches, greenhouses, aquacultural operations, nurseries, timber tracts, or other agricultural establishments. May hire, train, and supervise farm workers or contract for services to carry out the day-to-day activities of the managed operation. May engage in or supervise planting, cultivating, harvesting, and financial and marketing activities. *Examples: Dairy Farm Manager; Orchard Manager*

Training Category: High School | 5+ years | none

2015 Average Wage:	n/a
2014 Estimated Employment:	3,955
2024 Projected Employment:	4,030
Growth Rate, 2014-2024:	1.9%
Annual Openings:	75

Industry	2014 Share	2024 Share
Self-Employed Workers	91.5%	91.7%
111 Crop Production	4.9%	4.8%
112 Animal Production	3.5%	3.4%

11-9021 Construction Managers



Plan, direct, coordinate, or budget, usually through subordinate supervisory personnel, activities concerned with the construction and maintenance of structures, facilities, and systems. Participate in the conceptual development of a construction project and oversee its organization, scheduling, and implementation. Include specialized construction fields, such as carpentry or plumbing. Include general superintendents, project managers, and constructors who manage, coordinate, and supervise the construction process. *Examples: Masonry Contractor Administrator; Developer*

Training Category: Bachelor | none | Moderate OJT

2015 Average Wage:	\$ 42.70
2014 Estimated Employment:	1,385
2024 Projected Employment:	1,418
Growth Rate, 2014-2024:	2.4%
Annual Openings:	22

Industry	2014 Share	2024 Share
Self-Employed Workers	35.4%	36.5%
236 Construction of Buildings	24.5%	24.0%
238 Specialty Trade Contractors	19.9%	18.8%
237 Heavy and Civil Engineering Construction	7.7%	7.5%
Local Government, ex. Education	3.8%	3.9%
5413 Architectural and Engineering Services	2.4%	2.5%

11-9031 Education Administrators, Preschool and Childcare Center/Program



Plan, direct, or coordinate the academic and nonacademic activities of preschool and child care centers or programs. *Examples: Director of Child Care Center; Head Start Director*

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	\$ 21.35
2014 Estimated Employment:	342
2024 Projected Employment:	359
Growth Rate, 2014-2024:	5.0%
Annual Openings:	12

Industry	2014 Share	2024 Share
624 Social Assistance	78.1%	78.0%
Self-Employed Workers	8.8%	8.9%
6111 Elementary and Secondary Schools	6.1%	6.1%
6113 Colleges and Universities	n	n
622 Hospitals	n	n
813 Membership Organizations & Associations	n	n

11-9032 Education Administrators, Elementary and Secondary School



Plan, direct, or coordinate the academic, clerical, or auxiliary activities of public or private elementary or secondary level schools. *Examples: Director of Physical Education; Curriculum Director*

Training Category: Masters | 5+ years | none

2015 Average Wage:	\$85,592.00
2014 Estimated Employment:	1,277
2024 Projected Employment:	1,319
Growth Rate, 2014-2024:	3.3%
Annual Openings:	41

Industry	2014 Share	2024 Share
6111 Elementary and Secondary Schools	98.0%	97.9%
Self-Employed Workers	n	n
623 Nursing and Residential Care Facilities	n	n

11-9033 Education Administrators, Postsecondary



Plan, direct, or coordinate research, instructional, student administration and services, and other educational activities at postsecondary institutions, including universities, colleges, and junior and community colleges. *Example: Director of Student Affairs*

Training Category: Masters | < 5 yrs | none

2015 Average Wage:	\$ 45.83
2014 Estimated Employment:	737
2024 Projected Employment:	783
Growth Rate, 2014-2024:	6.2%
Annual Openings:	26

Industry	2014 Share	2024 Share
6113 Colleges and Universities	84.4%	84.6%
Self-Employed Workers	4.8%	4.7%
6111 Elementary and Secondary Schools	1.4%	1.3%
6112 Junior Colleges	n	n
6115 Technical and Trade Schools	n	n
6117 Educational Support Services	n	n

11-9039 Education Administrators, All Other



All education administrators not listed separately. *Examples: Director of Extension Work; Director of Vocational Training; Health Education Director*

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	\$ 30.19
2014 Estimated Employment:	135
2024 Projected Employment:	147
Growth Rate, 2014-2024:	8.9%
Annual Openings:	5

Industry	2014 Share	2024 Share
6116 Other Schools and Instruction	31.1%	34.0%
6115 Technical and Trade Schools	23.0%	22.5%
624 Social Assistance	13.3%	12.9%
Self-Employed Workers	5.9%	5.4%
511 Publishing Industries	n	n
6114 Business, Computer & Management Training	n	n

11-9041 Architectural and Engineering Managers



Plan, direct, or coordinate activities in such fields as architecture and engineering or research and development in these fields. *Examples: Engineering Research Manager; Safety Director; Technical Director*

Training Category: Bachelor | 5+ years | none

2015 Average Wage:	\$ 65.77
2014 Estimated Employment:	962
2024 Projected Employment:	984
Growth Rate, 2014-2024:	2.3%
Annual Openings:	32

Industry	2014 Share	2024 Share
334 Computer and Electronic Product Mfg	25.3%	23.9%
5413 Architectural and Engineering Services	16.0%	17.2%
333 Machinery Manufacturing	9.3%	8.8%
332 Fabricated Metal Product Manufacturing	6.8%	7.1%
551 Management of Companies and Enterprises	5.7%	5.9%
335 Electrical Equipment and Appliances	4.8%	4.3%

11-9051 Food Service Managers



Plan, direct, or coordinate activities of an organization or department that serves food and beverages. *Examples: Banquet Director; Restaurant Manager; Catering Manager*

Training Category: High School | < 5 yrs | none

2015 Average Wage:	\$ 26.23
2014 Estimated Employment:	1,559
2024 Projected Employment:	1,658
Growth Rate, 2014-2024:	6.4%
Annual Openings:	41

Industry	2014 Share	2024 Share
722 Food Services and Drinking Places	53.4%	54.2%
Self-Employed Workers	31.7%	30.4%
5611 Office Administrative Services	5.2%	5.8%
6111 Elementary and Secondary Schools	2.1%	1.9%
721 Accommodation	1.5%	1.5%
622 Hospitals	1.4%	1.3%

11-9061 Funeral Service Managers



Perform various tasks to arrange and direct funeral services, such as coordinating transportation of body to mortuary for embalming, interviewing family or other authorized person to arrange details, selecting pallbearers, procuring official for religious rites, and providing transportation for mourners. *Examples: Funeral Home Director. Funeral Home Manager*

Training Category: Associate | < 5 yrs | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
	Self-Employed Workers	n	n
812	Personal and Laundry Services	n	n

11-9071 Gaming Managers



Plan, direct, or coordinate gaming operations in a casino. May formulate house rules. *Casino Manager; Slot Operations Manager; Table Games Manager*

Training Category: High School | < 5 yrs | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
	Self-Employed Workers	n	n
713	Amusement, Gambling & Recreation Ind	n	n

11-9081 Lodging Managers



Plan, direct, or coordinate activities of an organization or department that provides lodging and other accommodations. *Examples: Director of Housing; Innkeeper*

Training Category: High School | < 5 yrs | none

2015 Average Wage:	\$ 30.08
2014 Estimated Employment:	388
2024 Projected Employment:	420
Growth Rate, 2014-2024:	8.3%
Annual Openings:	10

Industry		2014 Share	2024 Share
721	Accommodation	62.1%	63.1%
	Self-Employed Workers	30.2%	29.3%
6113	Colleges and Universities	4.4%	4.3%
551	Management of Companies and Enterprises	n	n
6116	Other Schools and Instruction	n	n
813	Membership Organizations & Associations	n	n

11-9111 Medical and Health Services Managers



Plan, direct, or coordinate medicine and health services in hospitals, clinics, managed care organizations, public health agencies, or similar organizations. *Examples: Director of Occupational Therapy; Medical Records Administrator; Public Health Administrator*

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	\$ 50.79
2014 Estimated Employment:	1,620
2024 Projected Employment:	1,901
Growth Rate, 2014-2024:	17.4%
Annual Openings:	69

Industry		2014 Share	2024 Share
622	Hospitals	36.7%	31.3%
621	Ambulatory Health Care Services	33.4%	38.6%
	Self-Employed Workers	3.8%	4.6%
551	Management of Companies and Enterprises	3.6%	3.3%
6113	Colleges and Universities	n	n
623	Nursing and Residential Care Facilities	n	n

11-9121 Natural Sciences Managers



Plan, direct, or coordinate activities in such fields as life sciences, physical sciences, mathematics, statistics, and research and development in these fields. *Examples: Geophysical Manager; Research and Development Director; Wildlife Manager*

Training Category: Bachelor | 5+ years | none

2015 Average Wage:	\$ 67.66
2014 Estimated Employment:	109
2024 Projected Employment:	114
Growth Rate, 2014-2024:	4.6%
Annual Openings:	2

Industry	2014 Share	2024 Share
Federal Government, ex. Postal Service	37.6%	35.1%
5417 Scientific Research and Development Svc	13.8%	15.8%
334 Computer and Electronic Product Mfg	11.9%	11.4%
339 Miscellaneous Manufacturing	n	n
622 Hospitals	n	n
813 Membership Organizations & Associations	n	n

11-9131 Postmasters and Mail Superintendents



Direct and coordinate operational, administrative, management, and supportive services of a U.S. post office; or coordinate activities of workers engaged in postal and related work in assigned post office. *Examples: Postal Supervisor, Postmaster*

Training Category: High School | < 5 yrs | Moderate OJT

2015 Average Wage:	\$ 33.91
2014 Estimated Employment:	166
2024 Projected Employment:	127
Growth Rate, 2014-2024:	-23.5%
Annual Openings:	4

Industry	2014 Share	2024 Share
491 Postal Service	100.0%	100.0%

11-9141 Property, Real Estate, and Community Association Managers



Plan, direct, or coordinate selling, buying, leasing, or governance activities of commercial, industrial, or residential real estate properties. Include managers of homeowner and condominium associations, rented or leased housing units, buildings, or land (including rights-of-way). *Examples: Condominium Association Manager; Trailer Park Manager*

Training Category: High School | < 5 yrs | none

2015 Average Wage:	\$ 35.36
2014 Estimated Employment:	1,074
2024 Projected Employment:	1,190
Growth Rate, 2014-2024:	10.8%
Annual Openings:	31

Industry	2014 Share	2024 Share
531 Real Estate	45.5%	46.7%
Self-Employed Workers	41.0%	38.9%
5416 Management & Technical Consulting Svc	n	n
551 Management of Companies and Enterprises	n	n
623 Nursing and Residential Care Facilities	n	n
813 Membership Organizations & Associations	n	n

11-9151 Social and Community Service Managers



Plan, organize, or coordinate the activities of a social service program or community outreach organization. Oversee the program or organization's budget and policies regarding participant involvement, program requirements, and benefits. Work may involve directing social workers, counselors, or probation officers. *Examples: Child Welfare Director; Youth Program Director; Director of Casework Services*

Training Category: Bachelor | 5+ years | none

2015 Average Wage:	\$ 30.08
2014 Estimated Employment:	563
2024 Projected Employment:	619
Growth Rate, 2014-2024:	10.0%
Annual Openings:	21

Industry	2014 Share	2024 Share
624 Social Assistance	45.1%	43.0%
623 Nursing and Residential Care Facilities	14.4%	16.5%
Local Government, ex. Education	9.8%	9.4%
813 Membership Organizations & Associations	9.1%	8.9%
551 Management of Companies and Enterprises	5.5%	5.3%
Self-Employed Workers	5.3%	5.3%

11-9161 Emergency Management Directors 

Plan and direct disaster response or crisis management activities, provide disaster preparedness training, and prepare emergency plans and procedures for natural (e.g., hurricanes, floods, earthquakes), wartime, or technological (e.g., nuclear power plant emergencies or hazardous materials spills) disasters or hostage situations. *Examples: Disaster Response Director; Emergency Preparedness Coordinator; Public Safety Director*

Training Category: Bachelor | 5+ years | none

2015 Average Wage:	\$ 30.63
2014 Estimated Employment:	73
2024 Projected Employment:	79
Growth Rate, 2014-2024:	8.2%
Annual Openings:	2

Industry	2014 Share	2024 Share
Local Government, ex. Education	43.8%	43.0%
State Government, ex. Education and Hospitals	28.8%	27.9%
5416 Management & Technical Consulting Svc	12.3%	16.5%
221 Utilities	n	n
622 Hospitals	n	n

11-9199 Managers, All Other 

All managers not listed separately. *Examples: City Clerk; Publisher; Communications Manager*

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	\$ 55.18
2014 Estimated Employment:	9,632
2024 Projected Employment:	10,152
Growth Rate, 2014-2024:	5.4%
Annual Openings:	264

Industry	2014 Share	2024 Share
Self-Employed Workers	57.6%	57.3%
State Government, ex. Education and Hospitals	6.7%	6.7%
622 Hospitals	3.8%	3.7%
334 Computer and Electronic Product Mfg	3.0%	2.8%
551 Management of Companies and Enterprises	2.7%	2.7%
511 Publishing Industries	2.1%	1.7%

13-1011 Agents and Business Managers of Artists, Performers, and Athletes 

Represent and promote artists, performers, and athletes to prospective employers. May handle contract negotiation and other business matters for clients. *Examples: Booking Agent; Theatrical Agent; Boxing Promoter*

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
711 Performing Arts and Spectator Sports	n	n

13-1021 Buyers and Purchasing Agents, Farm Products 

Purchase farm products either for further processing or resale. Include Christmas tree contractors, grain brokers and market operators, grain buyers, and tobacco buyers. *Examples: Cotton Broker; Livestock Buyer; Tobacco Buyer*

Training Category: Bachelor | none | Long OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
311 Food Manufacturing	n	n
423 Merchant Wholesalers, Durable Goods	n	n
424 Merchant Wholesalers, Nondurable Goods	n	n

13-1022 Wholesale and Retail Buyers, Except Farm Products



Buy merchandise or commodities, other than farm products, for resale to consumers at the wholesale or retail level, including both durable and nondurable goods. Analyze past buying trends, sales records, price, and quality of merchandise to determine value and yield. Select, order, and authorize payment for merchandise according to contractual agreements. May conduct meetings with sales personnel and introduce new products. *Examples: Importer; Merchandiser; Wholesale Jobber*

Training Category: Bachelor | none | Long OJT

2015 Average Wage:	\$ 28.89
2014 Estimated Employment:	564
2024 Projected Employment:	611
Growth Rate, 2014-2024:	8.3%
Annual Openings:	23

Industry	2014 Share	2024 Share
423 Merchant Wholesalers, Durable Goods	20.0%	19.6%
551 Management of Companies and Enterprises	16.1%	15.6%
Self-Employed Workers	13.1%	12.4%
454 Nonstore Retailers	9.6%	11.5%
445 Food and Beverage Stores	7.6%	7.7%
424 Merchant Wholesalers, Nondurable Goods	6.6%	6.2%

13-1023 Purchasing Agents, Except Wholesale, Retail, and Farm Products



Purchase machinery, equipment, tools, parts, supplies, or services necessary for the operation of an establishment. Purchase raw or semi-finished materials for manufacturing. Include contract specialists, field contractors, purchasers, price analysts, tooling coordinators, and media buyers. *Examples: Fuel Buyer; Lumber Buyer; Radio Time Buyer*

Training Category: Bachelor | none | Long OJT

2015 Average Wage:	\$ 29.87
2014 Estimated Employment:	1,453
2024 Projected Employment:	1,487
Growth Rate, 2014-2024:	2.3%
Annual Openings:	43

Industry	2014 Share	2024 Share
334 Computer and Electronic Product Mfg	22.8%	21.5%
333 Machinery Manufacturing	9.9%	9.6%
332 Fabricated Metal Product Manufacturing	7.8%	8.2%
551 Management of Companies and Enterprises	5.5%	5.7%
622 Hospitals	4.5%	4.7%
Federal Government, ex. Postal Service	3.9%	3.4%

13-1031 Claims Adjusters, Examiners, and Investigators



Review settled claims to determine that payments and settlements have been made in accordance with company practices and procedures, ensuring that proper methods have been followed. Report overpayments, underpayments, and other irregularities. Confer with legal counsel on claims requiring litigation. *Examples: Health Insurance Adjuster; Arson Investigator; Claims Agent*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 32.24
2014 Estimated Employment:	1,372
2024 Projected Employment:	1,432
Growth Rate, 2014-2024:	4.4%
Annual Openings:	40

Industry	2014 Share	2024 Share
524 Insurance Carriers & Related Activities	83.7%	83.5%
Federal Government, ex. Postal Service	9.0%	8.5%
5611 Office Administrative Services	3.6%	4.1%
Self-Employed Workers	1.6%	1.7%
5416 Management & Technical Consulting Svc	n	n
551 Management of Companies and Enterprises	n	n

13-1032 Insurance Appraisers, Auto Damage



Appraise automobile or other vehicle damage to determine cost of repair for insurance claim settlement and seek agreement with automotive repair shop on cost of repair. Prepare insurance forms to indicate repair cost or cost estimates and recommendations. *Example: Auto Damage Estimator*

Training Category: Postsecondary | none | Moderate OJT

2015 Average Wage:	\$ 29.86
2014 Estimated Employment:	49
2024 Projected Employment:	48
Growth Rate, 2014-2024:	-2.0%
Annual Openings:	1

Industry	2014 Share	2024 Share
524 Insurance Carriers & Related Activities	98.0%	97.9%
Self-Employed Workers	2.0%	2.1%

13-1041 Compliance Officers



Examine, evaluate, and investigate eligibility for or conformity with laws and regulations governing contract compliance of licenses and permits, and other compliance and enforcement inspection activities not classified elsewhere. *Examples: Truant Officer; Inspector of Weights and Measures*

Training Category: Bachelor | none | Moderate OJT

2015 Average Wage:	\$ 32.96
2014 Estimated Employment:	1,113
2024 Projected Employment:	1,187
Growth Rate, 2014-2024:	6.7%
Annual Openings:	23

Industry		2014 Share	2024 Share
	Federal Government, ex. Postal Service	33.6%	30.8%
524	Insurance Carriers & Related Activities	11.8%	11.8%
	State Government, ex. Education and Hospitals	9.7%	9.6%
	Local Government, ex. Education	5.0%	5.0%
551	Management of Companies and Enterprises	3.3%	3.3%
523	Financial Investment and Related Activities	n	n

13-1051 Cost Estimators



Prepare cost estimates for product manufacturing, construction projects, or services to aid management in bidding on or determining price of product or service. May specialize according to particular service performed or type of product manufactured. *Examples: Construction Estimator; Crating and Moving Estimator; Job Estimator*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 33.16
2014 Estimated Employment:	691
2024 Projected Employment:	739
Growth Rate, 2014-2024:	7.0%
Annual Openings:	25

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	36.5%	36.5%
236	Construction of Buildings	16.8%	16.8%
332	Fabricated Metal Product Manufacturing	9.4%	9.7%
811	Repair and Maintenance	7.4%	7.4%
425	Electronic Markets and Agents/Brokers	4.1%	4.3%
323	Printing and Related Support Activities	3.9%	3.5%

13-1071 Human Resources Specialists



Perform activities in the human resource area. Includes employment specialists who screen, recruit, interview, and place workers. *Human Resources Generalists; Personnel Recruiter; Staffing Coordinator*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 28.78
2014 Estimated Employment:	1,925
2024 Projected Employment:	2,076
Growth Rate, 2014-2024:	7.8%
Annual Openings:	62

Industry		2014 Share	2024 Share
5613	Employment Services	22.4%	25.4%
551	Management of Companies and Enterprises	7.7%	7.3%
	State Government, ex. Education and Hospitals	6.2%	5.9%
524	Insurance Carriers & Related Activities	4.5%	4.1%
622	Hospitals	4.0%	3.7%
5415	Computer Systems Design and Rel Services	3.6%	3.8%

13-1075 Labor Relations Specialists



Resolve disputes between workers and managers, negotiate collective bargaining agreements, or coordinate grievance procedures to handle employee complaints. *Examples: Employee Relations Specialists; Labor Relations Consultant; Union Representative*

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	\$ 33.59
2014 Estimated Employment:	127
2024 Projected Employment:	117
Growth Rate, 2014-2024:	-7.9%
Annual Openings:	3

Industry		2014 Share	2024 Share
813	Membership Organizations & Associations	84.3%	82.9%
	Self-Employed Workers	1.6%	2.6%
336	Transportation Equipment Manufacturing	n	n
444	Building Material & Garden Supply Stores	n	n
524	Insurance Carriers & Related Activities	n	n
5418	Advertising and Related Services	n	n

13-1081 Logisticians



Analyze and coordinate the logistical functions of a firm or organization. Responsible for the entire life cycle of a product, including acquisition, distribution internal allocation, delivery, and final disposal of resources. *Examples: Logistics Engineer; Logistics Analyst; Logistics Planner*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 34.32
2014 Estimated Employment:	392
2024 Projected Employment:	406
Growth Rate, 2014-2024:	3.6%
Annual Openings:	6

Industry	2014 Share	2024 Share
334 Computer and Electronic Product Mfg	24.7%	22.9%
551 Management of Companies and Enterprises	21.4%	21.7%
332 Fabricated Metal Product Manufacturing	5.9%	6.2%
Federal Government, ex. Postal Service	5.9%	5.7%
454 Nonstore Retailers	n	n
5611 Office Administrative Services	n	n

13-1111 Management Analysts



Conduct organizational studies and evaluations, design systems and procedures, conduct work simplifications and measurement studies, and prepare operations and procedures manuals to assist management in operating more efficiently and effectively. Include program analysts and management consultants. *Examples: Industrial Analyst; Price Analyst*

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	\$ 46.56
2014 Estimated Employment:	2,378
2024 Projected Employment:	2,810
Growth Rate, 2014-2024:	18.2%
Annual Openings:	76

Industry	2014 Share	2024 Share
5416 Management & Technical Consulting Svc	20.8%	23.8%
524 Insurance Carriers & Related Activities	19.6%	19.4%
Self-Employed Workers	17.4%	17.7%
425 Electronic Markets and Agents/Brokers	5.5%	5.3%
423 Merchant Wholesalers, Durable Goods	3.0%	2.6%
State Government, ex. Education and Hospitals	2.9%	2.6%

13-1121 Meeting, Convention, and Event Planners



Coordinate activities of staff and convention personnel to make arrangements for group meetings and conventions. *Examples: Conference Planner; Conference Service Coordinator; Convention Manager*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 23.98
2014 Estimated Employment:	399
2024 Projected Employment:	437
Growth Rate, 2014-2024:	9.5%
Annual Openings:	9

Industry	2014 Share	2024 Share
531 Real Estate	16.5%	16.0%
Self-Employed Workers	11.8%	11.4%
721 Accommodation	10.5%	11.0%
6113 Colleges and Universities	10.3%	11.0%
722 Food Services and Drinking Places	9.3%	8.9%
813 Membership Organizations & Associations	6.8%	6.9%

13-1131 Fundraisers



Organize activities to raise funds or otherwise solicit and gather monetary donations or other gifts for an organization. May design and produce promotional materials. May also raise awareness of the organization's work, goals, and financial needs. *Examples: Campaign Fundraiser; Donor Relations Officer; Fundraising Officer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 25.17
2014 Estimated Employment:	379
2024 Projected Employment:	415
Growth Rate, 2014-2024:	9.5%
Annual Openings:	9

Industry	2014 Share	2024 Share
813 Membership Organizations & Associations	23.8%	23.1%
6113 Colleges and Universities	17.9%	18.8%
624 Social Assistance	15.3%	14.5%
6111 Elementary and Secondary Schools	12.7%	12.1%
6116 Other Schools and Instruction	4.0%	4.3%
711 Performing Arts and Spectator Sports	n	n

13-1141 Compensation, Benefits, and Job Analysis Specialists



Conduct programs of compensation and benefits and job analysis for employer. May specialize in specific areas, such as position classification and pension programs.

Examples: Employee Benefits Specialist; Job Analyst; Retirement Plan Specialist

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	\$ 29.57
2014 Estimated Employment:	270
2024 Projected Employment:	283
Growth Rate, 2014-2024:	4.8%
Annual Openings:	8

Industry	2014 Share	2024 Share
524 Insurance Carriers & Related Activities	16.7%	17.3%
622 Hospitals	12.6%	12.0%
5611 Office Administrative Services	11.1%	12.0%
6113 Colleges and Universities	4.8%	4.6%
State Government, ex. Education and Hospitals	4.8%	4.6%
334 Computer and Electronic Product Mfg	n	n

13-1151 Training and Development Specialists



Design and conduct training and development programs to improve individual and organizational performance. May analyze training needs.

Examples: Computer Training Specialists; Corporate Trainer; Workforce Development Specialist

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	\$ 32.11
2014 Estimated Employment:	1,003
2024 Projected Employment:	1,100
Growth Rate, 2014-2024:	9.7%
Annual Openings:	34

Industry	2014 Share	2024 Share
524 Insurance Carriers & Related Activities	14.1%	13.5%
622 Hospitals	9.9%	9.5%
551 Management of Companies and Enterprises	4.8%	4.6%
333 Machinery Manufacturing	4.0%	3.6%
334 Computer and Electronic Product Mfg	3.7%	3.2%
5611 Office Administrative Services	3.6%	3.9%

13-1161 Market Research Analysts and Marketing Specialists



Research market conditions in local, regional, or national areas, or gather information to determine potential sales of a product or service, or create a marketing campaign. May gather information on competitors, prices, sales, and methods of marketing and distribution *Examples: Market Research Specialist; Marketing Consultant; Marketing Forecaster*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 33.05
2014 Estimated Employment:	1,813
2024 Projected Employment:	2,146
Growth Rate, 2014-2024:	18.4%
Annual Openings:	55

Industry	2014 Share	2024 Share
334 Computer and Electronic Product Mfg	10.5%	9.1%
5415 Computer Systems Design and Rel Services	9.3%	10.1%
425 Electronic Markets and Agents/Brokers	9.1%	9.4%
5419 Other Professional & Technical Services	6.3%	7.2%
423 Merchant Wholesalers, Durable Goods	4.7%	4.4%
551 Management of Companies and Enterprises	4.5%	4.3%

13-1199 Business Operations Specialists, All Other



All business operations specialists not listed separately. *Examples: Grant Coordinator; Liaison Officer; Purser*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 31.90
2014 Estimated Employment:	5,374
2024 Projected Employment:	5,794
Growth Rate, 2014-2024:	7.8%
Annual Openings:	106

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	12.0%	11.7%
813 Membership Organizations & Associations	7.0%	6.8%
524 Insurance Carriers & Related Activities	6.3%	6.5%
Federal Government, ex. Postal Service	6.1%	5.5%
6113 Colleges and Universities	3.8%	3.7%
551 Management of Companies and Enterprises	3.2%	3.1%

13-2011 Accountants and Auditors



Examine, analyze, and interpret accounting records for the purpose of giving advice or preparing statements. Install or advise on systems of recording costs or other financial and budgetary data. *Examples: Certified Public Accountant; Tax Accountant*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 33.81
2014 Estimated Employment:	4,727
2024 Projected Employment:	5,317
Growth Rate, 2014-2024:	12.5%
Annual Openings:	185

Industry	2014 Share	2024 Share
5412 Accounting and Bookkeeping Services	31.1%	33.8%
Self-Employed Workers	5.4%	5.0%
524 Insurance Carriers & Related Activities	5.2%	4.9%
551 Management of Companies and Enterprises	5.1%	4.7%
5611 Office Administrative Services	3.6%	3.8%
6113 Colleges and Universities	3.2%	2.9%

13-2021 Appraisers and Assessors of Real Estate



Appraise real property to determine its fair value. May assess taxes in accordance with prescribed schedules. *Examples: Building Appraiser; County Assessor; Property Evaluator*

Training Category: Bachelor | none | Long OJT

2015 Average Wage:	\$ 31.86
2014 Estimated Employment:	326
2024 Projected Employment:	359
Growth Rate, 2014-2024:	10.1%
Annual Openings:	8

Industry	2014 Share	2024 Share
531 Real Estate	34.1%	37.3%
Local Government, ex. Education	23.6%	21.5%
Self-Employed Workers	21.8%	20.9%
State Government, ex. Education and Hospitals	9.8%	8.4%
Federal Government, ex. Postal Service	2.2%	2.0%
5416 Management & Technical Consulting Svc	n	n

13-2031 Budget Analysts



Examine budget estimates for completeness, accuracy, and conformance with procedures and regulations. Analyze budgeting and accounting reports for the purpose of maintaining expenditure controls. *Examples: Budget Examiner; Fiscal Agent; Fiscal Officer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 33.96
2014 Estimated Employment:	133
2024 Projected Employment:	148
Growth Rate, 2014-2024:	11.3%
Annual Openings:	5

Industry	2014 Share	2024 Share
Federal Government, ex. Postal Service	9.8%	8.1%
334 Computer and Electronic Product Mfg	n	n
523 Financial Investment and Related Activities	n	n
551 Management of Companies and Enterprises	n	n
5611 Office Administrative Services	n	n
6113 Colleges and Universities	n	n

13-2041 Credit Analysts



Analyze current credit data and financial statements of individuals or firms to determine the degree of risk involved in extending credit or lending money. Prepare reports with this credit information for use in decision-making. *Examples: Credit Negotiator; Escrow Representative; Factorer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 32.21
2014 Estimated Employment:	182
2024 Projected Employment:	194
Growth Rate, 2014-2024:	6.6%
Annual Openings:	9

Industry	2014 Share	2024 Share
551 Management of Companies and Enterprises	40.1%	39.7%
522 Credit Intermediation & Related Activity	33.0%	33.5%
334 Computer and Electronic Product Mfg	n	n
424 Merchant Wholesalers, Nondurable Goods	n	n
441 Motor Vehicle and Parts Dealers	n	n
518 ISPs, Search Portals, & Data Processing	n	n

13-2051 Financial Analysts



Conduct quantitative analyses of information affecting investment programs of public or private institutions. *Examples: Bond Analyst; Investment Analyst; Securities Consultant*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 33.35
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
334 Computer and Electronic Product Mfg	n	n
523 Financial Investment and Related Activities	n	n
524 Insurance Carriers & Related Activities	n	n
551 Management of Companies and Enterprises	n	n
622 Hospitals	n	n

13-2052 Personal Financial Advisors



Advise clients on financial plans utilizing knowledge of tax and investment strategies, securities, insurance, pension plans, and real estate. Duties include assessing clients' assets, liabilities, cash flow, insurance coverage, tax status, and financial objectives to establish investment strategies. *Examples: Budget Counselor; Financial Planner*

Training Category: Bachelor | none | Long OJT

2015 Average Wage:	\$ 59.23
2014 Estimated Employment:	1,050
2024 Projected Employment:	1,436
Growth Rate, 2014-2024:	36.8%
Annual Openings:	65

Industry	2014 Share	2024 Share
Self-Employed Workers	18.4%	15.9%
522 Credit Intermediation & Related Activity	9.3%	7.5%
523 Financial Investment and Related Activities	n	n
524 Insurance Carriers & Related Activities	n	n
5412 Accounting and Bookkeeping Services	n	n
5611 Office Administrative Services	n	n

13-2053 Insurance Underwriters



Review individual applications for insurance to evaluate degree of risk involved and determine acceptance of applications. *Examples: Bond Underwriter; Insurance Analyst*

Training Category: Bachelor | none | Moderate OJT

2015 Average Wage:	\$ 38.97
2014 Estimated Employment:	287
2024 Projected Employment:	249
Growth Rate, 2014-2024:	-13.2%
Annual Openings:	5

Industry	2014 Share	2024 Share
524 Insurance Carriers & Related Activities	100.0%	100.0%

13-2061 Financial Examiners



Enforce or ensure compliance with laws and regulations governing financial and securities institutions and financial and real estate transactions. May examine, verify correctness of, or establish authenticity of records. *Examples: Bank Examiner; Payroll Examiner; Pension Examiner*

Training Category: Bachelor | none | Moderate OJT

2015 Average Wage:	\$ 39.67
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
518 ISPs, Search Portals, & Data Processing	n	n
523 Financial Investment and Related Activities	n	n
524 Insurance Carriers & Related Activities	n	n
551 Management of Companies and Enterprises	n	n
Federal Government, ex. Postal Service	n	n
State Government, ex. Education and Hospitals	n	n

13-2071 Credit Counselors



Provide guidance to prospective loan applicants who have problems qualifying for traditional loans. Guidance may include determining the best type of loan and explaining loan requirements or restrictions. *Examples: Farm Mortgage Agent; Financial Aid Counselor*

Training Category: Bachelor | none | Moderate OJT

2015 Average Wage:	\$ 23.70
2014 Estimated Employment:	149
2024 Projected Employment:	166
Growth Rate, 2014-2024:	11.4%
Annual Openings:	4

Industry	2014 Share	2024 Share
6113 Colleges and Universities	55.0%	53.6%
522 Credit Intermediation & Related Activity	18.1%	18.1%
5419 Other Professional & Technical Services	7.4%	9.6%
6112 Junior Colleges	n	n
621 Ambulatory Health Care Services	n	n
622 Hospitals	n	n

13-2072 Loan Officers



Evaluate, authorize, or recommend approval of commercial, real estate, or credit loans. Advise borrowers on financial status and methods of payments. Include mortgage loan officers and agents, collection analysts, loan servicing officers, and loan underwriters. *Examples: Loan Reviewer; Escrow Officer; Mortgage Consultant*

Training Category: Bachelor | none | Moderate OJT

2015 Average Wage:	\$ 43.21
2014 Estimated Employment:	1,161
2024 Projected Employment:	1,284
Growth Rate, 2014-2024:	10.6%
Annual Openings:	31

Industry	2014 Share	2024 Share
522 Credit Intermediation & Related Activity	78.0%	78.7%
441 Motor Vehicle and Parts Dealers	11.3%	11.1%
551 Management of Companies and Enterprises	7.8%	7.4%
Federal Government, ex. Postal Service	1.2%	1.1%
Self-Employed Workers	0.5%	0.6%
523 Financial Investment and Related Activities	n	n

13-2081 Tax Examiners and Collectors, and Revenue Agents



Determine tax liability or collect taxes from individuals or business firms according to prescribed laws and regulations. *Examples: Tax Investigator; Revenue Agent; Tax Auditor*

Training Category: Bachelor | none | Moderate OJT

2015 Average Wage:	\$ 26.48
2014 Estimated Employment:	356
2024 Projected Employment:	364
Growth Rate, 2014-2024:	2.3%
Annual Openings:	16

Industry	2014 Share	2024 Share
Local Government, ex. Education	67.7%	70.1%
Federal Government, ex. Postal Service	18.8%	16.2%
State Government, ex. Education and Hospitals	13.5%	13.7%

13-2082 Tax Preparers



Prepare tax returns for individuals or small businesses but do not have the background or responsibilities of an accredited or certified public accountant. *Examples: Income Tax Advisor; Income Tax Consultant; Tax Specialist*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 17.30
2014 Estimated Employment:	461
2024 Projected Employment:	487
Growth Rate, 2014-2024:	5.6%
Annual Openings:	15

Industry	2014 Share	2024 Share
5412 Accounting and Bookkeeping Services	58.6%	56.7%
Self-Employed Workers	17.1%	16.8%
511 Publishing Industries	n	n

13-2099 Financial Specialists, All Other



All financial specialists not listed separately. *Examples: Bail Bondsman; Executor of Estate; Foreign Exchange Trader*

Training Category: Bachelor | none | Moderate OJT

2015 Average Wage:	\$ 34.94
2014 Estimated Employment:	1,113
2024 Projected Employment:	1,234
Growth Rate, 2014-2024:	10.9%
Annual Openings:	23

Industry	2014 Share	2024 Share
522 Credit Intermediation & Related Activity	12.0%	12.0%
551 Management of Companies and Enterprises	10.2%	9.6%
425 Electronic Markets and Agents/Brokers	9.1%	9.2%
524 Insurance Carriers & Related Activities	6.2%	5.8%
5416 Management & Technical Consulting Svc	5.9%	7.2%
523 Financial Investment and Related Activities	n	n

15-1111 Computer and Information Research Scientists



Conduct research into fundamental computer and information science as theorists, designers, or inventors. Develop solutions to problems in the field of computer hardware and software. *Examples: Control System Computer Scientist; Computational Theory Scientist*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$ 63.97
2014 Estimated Employment:	282
2024 Projected Employment:	280
Growth Rate, 2014-2024:	-0.7%
Annual Openings:	4

Industry	2014 Share	2024 Share
5415 Computer Systems Design and Rel Services	19.9%	23.6%
332 Fabricated Metal Product Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n
423 Merchant Wholesalers, Durable Goods	n	n
511 Publishing Industries	n	n
5417 Scientific Research and Development Svc	n	n

15-1121 Computer Systems Analysts



Analyze science, engineering, business, and other data processing problems to implement and improve computer systems. Analyze user requirements, procedures, and problems to automate or improve existing systems and review computer system capabilities, workflow, and scheduling limitations. May analyze or recommend commercially available software. *Examples: Applications Analyst; Data Processing Systems Analyst*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 42.78
2014 Estimated Employment:	2,242
2024 Projected Employment:	2,670
Growth Rate, 2014-2024:	19.1%
Annual Openings:	72

Industry	2014 Share	2024 Share
524 Insurance Carriers & Related Activities	39.2%	38.0%
5415 Computer Systems Design and Rel Services	13.7%	15.0%
334 Computer and Electronic Product Mfg	5.3%	4.6%
State Government, ex. Education and Hospitals	4.7%	4.5%
622 Hospitals	4.6%	4.3%
551 Management of companies and Enterprises	4.4%	4.2%

15-1122 Information Security Analysts



Plan, implement, upgrade, or monitor security measures for the protection of computer networks and information. May ensure appropriate security controls are in place that will safeguard digital files and vital electronic infrastructure. May respond to computer security breaches and viruses. *Examples: Computer Security Specialist; Internet Security Specialist; Network Security Analyst*

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	\$ 46.89
2014 Estimated Employment:	223
2024 Projected Employment:	278
Growth Rate, 2014-2024:	24.7%
Annual Openings:	9

Industry	2014 Share	2024 Share
5415 Computer Systems Design and Rel Services	37.2%	39.6%
524 Insurance Carriers & Related Activities	25.1%	26.3%
522 Credit Intermediation & Related Activity	6.7%	5.8%
523 Financial Investment and Related Activities	n	n
5418 Advertising and Related Services	n	n
551 Management of Companies and Enterprises	n	n

15-1131 Computer Programmers



Create, modify, and test the code, forms, and script that allow computer applications to run. Work from specifications drawn up by software developers or other individuals. May assist software developers by analyzing user needs and designing software solutions. May develop and write computer programs to store, locate, and retrieve specific documents, data, and information. *Examples: Applications Programmer; Systems Programmer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 35.58
2014 Estimated Employment:	1,703
2024 Projected Employment:	1,515
Growth Rate, 2014-2024:	-11.0%
Annual Openings:	42

Industry	2014 Share	2024 Share
5415 Computer Systems Design and Rel Services	52.9%	45.8%
425 Electronic Markets and Agents/Brokers	7.6%	8.7%
6113 Colleges and Universities	5.9%	6.2%
Self-Employed Workers	4.9%	6.4%
511 Publishing Industries	4.5%	5.5%
524 Insurance Carriers & Related Activities	3.7%	4.2%

15-1132 Software Developers, Applications



Develop, create, and modify general computer applications software or specialized utility programs. Analyze user needs and develop software solutions. Design software or customize software for client use with the aim of optimizing operational efficiency. May analyze and design databases within an application area, working individually or coordinating database development as part of a team. May supervise computer programmers. *Examples: Computer Applications Engineer; Database Developer; Software Applications Engineer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 45.45
2014 Estimated Employment:	4,450
2024 Projected Employment:	5,286
Growth Rate, 2014-2024:	18.8%
Annual Openings:	148

Industry	2014 Share	2024 Share
5415 Computer Systems Design and Rel Services	34.6%	37.2%
524 Insurance Carriers & Related Activities	14.7%	14.9%
511 Publishing Industries	14.5%	14.6%
334 Computer and Electronic Product Mfg	6.8%	5.4%
6113 Colleges and Universities	3.1%	2.7%
5413 Architectural and Engineering Services	2.2%	2.0%

15-1133 Software Developers, Systems Software



Research, design, develop, and test operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computing applications. Set operational specifications and formulate and analyze software requirements. May design embedded systems software. Apply principles and techniques of computer science, engineering, and mathematical analysis. *Examples: Computer Systems Software Architect; Software Systems Engineer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 57.74
2014 Estimated Employment:	1,410
2024 Projected Employment:	1,585
Growth Rate, 2014-2024:	12.4%
Annual Openings:	38

Industry	2014 Share	2024 Share
5415 Computer Systems Design and Rel Services	26.1%	29.8%
334 Computer and Electronic Product Mfg	19.7%	16.5%
524 Insurance Carriers & Related Activities	5.0%	4.8%
423 Merchant Wholesalers, Durable Goods	n	n
518 ISPs, Search Portals, & Data Processing	n	n
523 Financial Investment and Related Activities	n	n

15-1134 Web Developers



Design, create, and modify Web sites. Analyze user needs to implement Web site content, graphics, performance, and capacity. May integrate Web sites with other computer applications. May convert written, graphic, audio, and video components to compatible Web formats by using software designed to facilitate the creation of Web and multimedia content. *Examples: Internet Developer; Intranet Developer; Web Designer*

Training Category: Associate | none | none

2015 Average Wage:	\$ 28.26
2014 Estimated Employment:	907
2024 Projected Employment:	1,172
Growth Rate, 2014-2024:	29.2%
Annual Openings:	38

Industry	2014 Share	2024 Share
5415 Computer Systems Design and Rel Services	41.2%	43.5%
Self-Employed Workers	12.5%	11.3%
5418 Advertising and Related Services	5.2%	5.0%
5416 Management & Technical Consulting Svc	4.1%	5.0%
511 Publishing Industries	3.9%	3.3%
6113 Colleges and Universities	3.3%	3.2%

15-1141 Database Administrators



Administer, test, and implement computer databases, applying knowledge of database management systems. Coordinate changes to computer databases. May plan, coordinate, and implement security measures to safeguard computer databases. *Examples: Database Management Systems Specialist; Database Security Administrator*

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	\$ 40.45
2014 Estimated Employment:	507
2024 Projected Employment:	572
Growth Rate, 2014-2024:	12.8%
Annual Openings:	17

Industry	2014 Share	2024 Share
524 Insurance Carriers & Related Activities	16.0%	15.6%
State Government, ex. Education and Hospitals	10.5%	9.8%
5416 Management & Technical Consulting Svc	10.1%	11.9%
6113 Colleges and Universities	6.9%	6.5%
523 Financial Investment and Related Activities	n	n
5415 Computer Systems Design and Rel Services	n	n

15-1142 Network and Computer Systems Administrators



Install, configure, and support an organization's local area network (LAN), wide area network (WAN), and Internet systems or a segment of a network system. Monitor network to ensure network availability to all system users and may perform necessary maintenance to support network availability. May monitor and test Web site performance to ensure Web sites operate correctly and without interruption. *Examples: Network Coordinator; Network Security Administrator*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 36.56
2014 Estimated Employment:	1,827
2024 Projected Employment:	1,923
Growth Rate, 2014-2024:	5.3%
Annual Openings:	34

Industry	2014 Share	2024 Share
524 Insurance Carriers & Related Activities	15.2%	16.3%
6113 Colleges and Universities	8.2%	7.3%
517 Telecommunications	7.9%	6.8%
6111 Elementary and Secondary Schools	6.7%	6.1%
5415 Computer Systems Design and Rel Services	5.5%	6.7%
622 Hospitals	5.1%	5.4%

15-1143 Computer Network Architects



Design and implement computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. Perform network modeling, analysis, and planning. May also design network and computer security measures. May research and recommend network and data communications hardware and software. *Examples: Computer Network Engineer; Network Designer; Network Developer*

Training Category: Bachelor | 5+ years | none

2015 Average Wage:	\$ 45.16
2014 Estimated Employment:	350
2024 Projected Employment:	393
Growth Rate, 2014-2024:	12.3%
Annual Openings:	8

Industry	2014 Share	2024 Share
5415 Computer Systems Design and Rel Services	26.3%	27.7%
425 Electronic Markets and Agents/Brokers	18.0%	18.3%
524 Insurance Carriers & Related Activities	13.1%	12.2%
6113 Colleges and Universities	4.6%	4.3%
517 Telecommunications	n	n
523 Financial Investment and Related Activities	n	n

15-1151 Computer User Support Specialists



Provide technical assistance to computer users. Answer questions or resolve computer problems for clients in person, or via telephone or electronically. May provide assistance concerning the use of computer hardware and software, including printing, installation, word processing, electronic mail, and operating systems. *Examples: Desktop Support Specialist, Help Desk Technician*

Training Category: Some College | none | none

2015 Average Wage:	\$ 26.78
2014 Estimated Employment:	2,456
2024 Projected Employment:	2,753
Growth Rate, 2014-2024:	12.1%
Annual Openings:	62

Industry	2014 Share	2024 Share
5415 Computer Systems Design and Rel Services	14.5%	16.8%
511 Publishing Industries	12.5%	13.0%
6111 Elementary and Secondary Schools	7.7%	7.2%
423 Merchant Wholesalers, Durable Goods	5.1%	4.7%
622 Hospitals	4.8%	4.5%
524 Insurance Carriers & Related Activities	n	n

15-1152 Computer Network Support Specialists



Analyze, test, troubleshoot, and evaluate existing network systems, such as local area network (LAN), wide area network (WAN), and Internet systems or a segment of a network system. Perform network maintenance to ensure networks operate correctly with minimal interruption.
Examples: Network Diagnostic Support Technician; Network Support Technician; Network Technician

Training Category: Associate | none | none

2015 Average Wage:	\$ 29.71
2014 Estimated Employment:	512
2024 Projected Employment:	560
Growth Rate, 2014-2024:	9.4%
Annual Openings:	12

Industry	2014 Share	2024 Share
518 ISPs, Search Portals, & Data Processing	22.7%	23.2%
5415 Computer Systems Design and Rel Services	19.0%	20.5%
524 Insurance Carriers & Related Activities	11.1%	10.7%
517 Telecommunications	10.0%	8.0%
5416 Management & Technical Consulting Svc	n	n
622 Hospitals	n	n

15-1199 Computer Occupations, All Other



All computer occupations not listed separately. *Example: Computer Lab Technician*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 38.39
2014 Estimated Employment:	723
2024 Projected Employment:	795
Growth Rate, 2014-2024:	10.0%
Annual Openings:	16

Industry	2014 Share	2024 Share
5415 Computer Systems Design and Rel Services	12.9%	14.0%
Federal Government, ex. Postal Service	10.8%	9.6%
622 Hospitals	10.2%	9.7%
551 Management of Companies and Enterprises	7.2%	6.8%
511 Publishing Industries	7.1%	7.2%
423 Merchant Wholesalers, Durable Goods	6.1%	5.7%

15-2011 Actuaries



Analyze statistical data, such as mortality, accident, sickness, disability, and retirement rates and construct probability tables to forecast risk and liability for payment of future benefits. May ascertain premium rates required and cash reserves necessary to ensure payment of future benefits.
Example: Actuarial Mathematician

Training Category: Bachelor | none | Long OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
524 Insurance Carriers & Related Activities	n	n
5416 Management & Technical Consulting Svc	n	n

15-2021 Mathematicians



Conduct research in fundamental mathematics or in application of mathematical techniques to science, management, and other fields. Solve or direct solutions to problems in various fields by mathematical methods. *Example: Cryptographer*

Training Category: Masters | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
5419 Other Professional & Technical Services	n	n

15-2031 Operations Research Analysts



Formulate and apply mathematical modeling and other optimizing methods using a computer to develop and interpret information that assists management with decision making, policy formulation, or other managerial functions. May develop related software, service, or products. Frequently concentrates on collecting and analyzing data and developing decision support software. May develop and supply optimal time, cost, or logistics networks for program evaluation, review, or implementation. *Examples: Method Consultant; Standards Analyst*

Training Category: Bachelor | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	370
2024 Projected Employment:	490
Growth Rate, 2014-2024:	32.4%
Annual Openings:	19

Industry	2014 Share	2024 Share
524 Insurance Carriers & Related Activities	47.0%	46.1%
6113 Colleges and Universities	10.5%	9.8%
523 Financial Investment and Related Activities	n	n
5412 Accounting and Bookkeeping Services	n	n
551 Management of Companies and Enterprises	n	n
5613 Employment Services	n	n

15-2041 Statisticians



Engage in the development of mathematical theory or apply statistical theory and methods to collect, organize, interpret, and summarize numerical data to provide usable information. May specialize in fields, such as bio-statistics, agricultural statistics, business statistics, economic statistics, or other fields. Include mathematical statisticians. *Examples: Biometrician; Sampling Expert; Statistical Analyst*

Training Category: Masters | none | none

2015 Average Wage:	\$ 33.24
2014 Estimated Employment:	88
2024 Projected Employment:	126
Growth Rate, 2014-2024:	43.2%
Annual Openings:	6

Industry	2014 Share	2024 Share
6113 Colleges and Universities	21.6%	19.8%
State Government, ex. Education and Hospitals	6.8%	6.4%
523 Financial Investment and Related Activities	n	n
524 Insurance Carriers & Related Activities	n	n
5417 Scientific Research and Development Svc	n	n
621 Ambulatory Health Care Services	n	n

15-2091 Mathematical Technicians



Apply standardized mathematical formulas, principles, and methodology to technological problems in engineering and physical sciences in relation to specific industrial and research objectives, processes, equipment, and products. *Example: Harmonic Analyst*

Training Category: Bachelor | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
5417 Scientific Research and Development Svc	n	n

15-2099 Mathematical Science Occupations, All Other



All mathematical scientists not listed separately. *Example: Harmonic Analyst*

Training Category: Bachelor | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
6113 Colleges and Universities	n	n

17-1011 Architects, Except Landscape and Naval



Plan and design structures, such as private residences, office buildings, theaters, factories, and other structural property. *Examples: Architectural Designer; Building Consultant; Site Planner*

Training Category: Bachelor | none | Intern / Res

2015 Average Wage:	n/a
2014 Estimated Employment:	326
2024 Projected Employment:	350
Growth Rate, 2014-2024:	7.4%
Annual Openings:	7

Industry	2014 Share	2024 Share
5413 Architectural and Engineering Services	64.1%	64.9%
Self-Employed Workers	17.8%	17.4%
236 Construction of Buildings	9.8%	9.7%
321 Wood Product Manufacturing	n	n
5416 Management & Technical Consulting Svc	n	n
6113 Colleges and Universities	n	n

17-1012 Landscape Architects



Plan and design land areas for such projects as parks and other recreational facilities, airports, highways, hospitals, schools, land subdivisions, and commercial, industrial, and residential sites. *Examples: Environmental Planner; Land Planner; Landscape Designer*

Training Category: Bachelor | none | Intern / Res

2015 Average Wage:	n/a
2014 Estimated Employment:	30
2024 Projected Employment:	32
Growth Rate, 2014-2024:	6.7%
Annual Openings:	0

Industry	2014 Share	2024 Share
5413 Architectural and Engineering Services	70.0%	68.8%
Self-Employed Workers	16.7%	15.6%
Federal Government, ex. Postal Service	3.3%	3.1%
444 Building Material & Garden Supply Stores	n	n
484 Truck Transportation	n	n
5416 Management & Technical Consulting Svc	n	n

17-1021 Cartographers and Photogrammetrists



Collect, analyze, and interpret geographic information provided by geodetic surveys, aerial photographs, and satellite data. Research, study, and prepare maps and other spatial data in digital or graphic form for legal, social, political, educational, and design purposes. May work with Geographic Information Systems (GIS). May design and evaluate algorithms, data structures, and user interfaces for GIS and mapping systems. *Examples: Field Map Editor; Mapper*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 24.03
2014 Estimated Employment:	88
2024 Projected Employment:	113
Growth Rate, 2014-2024:	28.4%
Annual Openings:	5

Industry	2014 Share	2024 Share
5413 Architectural and Engineering Services	61.4%	62.0%
Local Government, ex. Education	13.6%	14.2%
State Government, ex. Education and Hospitals	9.1%	8.9%
Self-Employed Workers	2.3%	1.8%
813 Membership Organizations & Associations	n	n
Federal Government, ex. Postal Service	n	n

17-1022 Surveyors



Make exact measurements and determine property boundaries. Provide data relevant to the shape, contour, gravitation, location, elevation, or dimension of land or land features on or near the earth's surface for engineering, mapmaking, mining, land evaluation, construction, and other purposes. *Examples: Geodetic Surveyor; Land Examiner; Mineral Surveyor*

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	\$ 25.88
2014 Estimated Employment:	256
2024 Projected Employment:	254
Growth Rate, 2014-2024:	-0.8%
Annual Openings:	8

Industry	2014 Share	2024 Share
5413 Architectural and Engineering Services	88.3%	87.8%
Self-Employed Workers	3.1%	3.5%
Local Government, ex. Education	1.2%	1.2%
State Government, ex. Education and Hospitals	1.2%	1.2%
236 Construction of Buildings	n	n
551 Management of Companies and Enterprises	n	n

17-2011 Aerospace Engineers



Perform a variety of engineering work in designing, constructing, and testing aircraft, missiles, and spacecraft. May conduct basic and applied research to evaluate adaptability of materials and equipment to aircraft design and manufacture. May recommend improvements in testing equipment and techniques. *Examples: Aeronautical Engineer; Aircraft Design Engineer; Flight Test Engineer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 46.42
2014 Estimated Employment:	54
2024 Projected Employment:	57
Growth Rate, 2014-2024:	5.6%
Annual Openings:	2

Industry	2014 Share	2024 Share
Self-Employed Workers	3.7%	3.5%
332 Fabricated Metal Product Manufacturing	n	n
336 Transportation Equipment Manufacturing	n	n
423 Merchant Wholesalers, Durable Goods	n	n
5416 Management & Technical Consulting Svc	n	n
5417 Scientific Research and Development Svc	n	n

17-2021 Agricultural Engineers



Apply knowledge of engineering technology and biological science to agricultural problems concerned with power and machinery, electrification, structures, soil and water conservation, and processing of agricultural products. *Examples: Agricultural Production Engineer, Farm Equipment Engineer*

Training Category: Bachelor | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Federal Government, ex. Postal Service	n	n

17-2031 Biomedical Engineers



Apply knowledge of engineering, biology, and biomechanical principles to the design, development, and evaluation of biological and health systems and products, such as artificial organs, prostheses, instrumentation, medical information systems, and health management and care delivery systems. *Example: Orthopedic Designer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 45.49
2014 Estimated Employment:	115
2024 Projected Employment:	144
Growth Rate, 2014-2024:	25.2%
Annual Openings:	6

Industry	2014 Share	2024 Share
339 Miscellaneous Manufacturing	42.6%	45.8%
Self-Employed Workers	6.1%	5.6%
334 Computer and Electronic Product Mfg	n	n
5413 Architectural and Engineering Services	n	n
5414 Specialized Design Services	n	n
5417 Scientific Research and Development Svc	n	n

17-2041 Chemical Engineers



Design chemical plant equipment and devise processes for manufacturing chemicals and products, such as gasoline, synthetic rubber, plastics, detergents, cement, paper, and pulp, by applying principles and technology of chemistry, physics, and engineering. *Examples: Absorption and Adsorption Engineer; Explosives Engineer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 46.92
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
312 Beverage & Tobacco Product Manufacturing	n	n
326 Plastics & Rubber Products Manufacturing	n	n
333 Machinery Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n
339 Miscellaneous Manufacturing	n	n
5417 Scientific Research and Development Svc	n	n

17-2051 Civil Engineers



Perform engineering duties in planning, designing, and overseeing construction and maintenance of building structures, and facilities, such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, water and sewage systems, and waste disposal units. Include architectural, structural, traffic, ocean, and geo-technical engineers. *Examples: Bridge Engineer; Construction Engineer; Concrete Engineer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 35.58
2014 Estimated Employment:	1,142
2024 Projected Employment:	1,252
Growth Rate, 2014-2024:	9.6%
Annual Openings:	45

Industry		2014 Share	2024 Share
5413	Architectural and Engineering Services	63.8%	65.3%
	State Government, ex. Education and Hospitals	22.2%	21.4%
	Self-Employed Workers	3.5%	3.5%
	Local Government, ex. Education	3.4%	3.3%
	Federal Government, ex. Postal Service	2.5%	2.2%
238	Specialty Trade Contractors	n	n

17-2061 Computer Hardware Engineers



Research, design, develop, and test computer or computer-related equipment for commercial, industrial, military, or scientific use. May supervise the manufacturing and installation of computer or computer-related equipment and components. *Examples: Computer Hardware Designer, Computer Hardware Developer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 59.78
2014 Estimated Employment:	221
2024 Projected Employment:	245
Growth Rate, 2014-2024:	10.9%
Annual Openings:	6

Industry		2014 Share	2024 Share
334	Computer and Electronic Product Mfg	32.6%	28.2%
5415	Computer Systems Design and Rel Services	32.1%	34.7%
423	Merchant Wholesalers, Durable Goods	n	n
5413	Architectural and Engineering Services	n	n
5613	Employment Services	n	n
621	Ambulatory Health Care Services	n	n

17-2071 Electrical Engineers



Design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use. *Examples: Power Distribution Engineer; Illuminating Engineer; Relay Engineer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 47.19
2014 Estimated Employment:	1,129
2024 Projected Employment:	1,137
Growth Rate, 2014-2024:	0.7%
Annual Openings:	26

Industry		2014 Share	2024 Share
334	Computer and Electronic Product Mfg	51.4%	49.3%
335	Electrical Equipment and Appliances	10.0%	9.2%
333	Machinery Manufacturing	6.9%	6.7%
5413	Architectural and Engineering Services	6.4%	7.0%
5417	Scientific Research and Development Svc	6.4%	7.6%
551	Management of Companies and Enterprises	4.3%	4.5%

17-2072 Electronics Engineers, Except Computer



Research, design, develop, and test electronic components and systems for commercial, industrial, military, or scientific use utilizing knowledge of electronic theory and materials properties. Design electronic circuits and components for use in fields such as telecommunications, aerospace guidance and propulsion control, acoustics, or instruments and controls. *Examples: Communications Engineer; Circuit Design Engineer; Guidance and Control Systems Engineer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 46.47
2014 Estimated Employment:	505
2024 Projected Employment:	507
Growth Rate, 2014-2024:	0.4%
Annual Openings:	11

Industry		2014 Share	2024 Share
334	Computer and Electronic Product Mfg	50.3%	48.1%
423	Merchant Wholesalers, Durable Goods	n	n
517	Telecommunications	n	n
5412	Accounting and Bookkeeping Services	n	n
5413	Architectural and Engineering Services	n	n
6113	Colleges and Universities	n	n

17-2081 Environmental Engineers



Design, plan, or perform engineering duties in the prevention, control, and remediation of environmental health hazards utilizing various engineering disciplines. Work may include waste treatment, site remediation, or pollution control technology. *Examples: Soil Engineer; Industrial Hygiene Engineer; Pollution Control Engineer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 41.41
2014 Estimated Employment:	164
2024 Projected Employment:	201
Growth Rate, 2014-2024:	22.6%
Annual Openings:	9

Industry	2014 Share	2024 Share
5413 Architectural and Engineering Services	45.7%	45.3%
5416 Management & Technical Consulting Svc	32.3%	35.8%
State Government, ex. Education and Hospitals	7.9%	7.0%
Local Government, ex. Education	4.3%	3.5%
334 Computer and Electronic Product Mfg	n	n
6113 Colleges and Universities	n	n

17-2111 Health and Safety Engineers, Except Mining Safety Engineers and Inspectors



Promote worksite or product safety by applying knowledge of industrial processes, mechanics, chemistry, psychology, and industrial health and safety laws. *Examples: Fire-Protection Engineer; Product Safety Engineer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 45.20
2014 Estimated Employment:	56
2024 Projected Employment:	57
Growth Rate, 2014-2024:	1.8%
Annual Openings:	2

Industry	2014 Share	2024 Share
236 Construction of Buildings	n	n
237 Heavy and Civil Engineering Construction	n	n
312 Beverage & Tobacco Product Manufacturing	n	n
524 Insurance Carriers & Related Activities	n	n
551 Management of Companies and Enterprises	n	n
5613 Employment Services	n	n

17-2112 Industrial Engineers



Design, develop, test, and evaluate integrated systems for managing industrial production processes including human work factors, quality control, inventory control, logistics and material flow, cost analysis, and production coordination. *Examples: Packaging Engineer; Time Study Engineer; Plant Engineer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 39.02
2014 Estimated Employment:	1,245
2024 Projected Employment:	1,301
Growth Rate, 2014-2024:	4.5%
Annual Openings:	42

Industry	2014 Share	2024 Share
334 Computer and Electronic Product Mfg	28.7%	29.1%
332 Fabricated Metal Product Manufacturing	14.3%	14.8%
333 Machinery Manufacturing	10.7%	10.1%
335 Electrical Equipment and Appliances	6.6%	5.8%
339 Miscellaneous Manufacturing	5.9%	6.0%
511 Publishing Industries	n	n

17-2131 Materials Engineers



Evaluate materials and develop machinery and processes to manufacture materials for use in products that must meet specialized design and performance specifications. Develop new uses for known materials. Include those working with composite materials or specializing in one type of material, such as graphite, metal and metal alloys, ceramics and glass, plastics and polymers, and naturally occurring materials. *Example: Corrosion Engineer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 43.64
2014 Estimated Employment:	123
2024 Projected Employment:	122
Growth Rate, 2014-2024:	-0.8%
Annual Openings:	4

Industry	2014 Share	2024 Share
313 Textile Mills	n	n
326 Plastics & Rubber Products Manufacturing	n	n
327 Nonmetallic Mineral Product Mfg	n	n
334 Computer and Electronic Product Mfg	n	n
335 Electrical Equipment and Appliances	n	n
336 Transportation Equipment Manufacturing	n	n

17-2141 Mechanical Engineers



Perform engineering duties in planning and designing tools, engines, machines, and other mechanically functioning equipment. Oversee installation, operation, maintenance, and repair of such equipment as centralized heat, gas, water, and steam systems. *Examples: Combustion Engineer; Plant Equipment Engineer; Hydraulic Engineer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 42.19
2014 Estimated Employment:	1,678
2024 Projected Employment:	1,794
Growth Rate, 2014-2024:	6.9%
Annual Openings:	65

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	19.4%	19.6%
333 Machinery Manufacturing	18.1%	16.7%
5417 Scientific Research and Development Svc	16.8%	19.1%
334 Computer and Electronic Product Mfg	14.1%	12.8%
5413 Architectural and Engineering Services	8.5%	9.5%
326 Plastics & Rubber Products Manufacturing	3.6%	3.3%

17-2151 Mining and Geological Engineers, Including Mining Safety Engineers



Determine the location and plan the extraction of coal, metallic ores, nonmetallic minerals, and building materials, such as stone and gravel. Work involves conducting preliminary surveys of deposits or undeveloped mines and planning their development; examining deposits or mines to determine whether they can be worked at a profit; making geological and topographical surveys; evolving methods of mining best suited to character, type, and size of deposits; and supervising mining operations. *Examples: Geophysical Engineer, Mineral Engineer*

Training Category: Bachelor | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
5413 Architectural and Engineering Services	n	n

17-2161 Nuclear Engineers



Conduct research on nuclear engineering projects or apply principles and theory of nuclear science to problems concerned with release, control, and use of nuclear energy and nuclear waste disposal. *Examples: Atomic Process Engineer, Nuclear Radiation Engineer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 52.71
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
221 Utilities	n	n
5416 Management & Technical Consulting Svc	n	n
Federal Government, ex. Postal Service	n	n

17-2199 Engineers, All Other



All engineers not listed separately. *Examples: Optical Engineer; Salvage Engineer; Ordnance Engineer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 42.64
2014 Estimated Employment:	1,047
2024 Projected Employment:	1,096
Growth Rate, 2014-2024:	4.7%
Annual Openings:	26

Industry	2014 Share	2024 Share
334 Computer and Electronic Product Mfg	25.0%	23.3%
5413 Architectural and Engineering Services	9.2%	9.7%
551 Management of Companies and Enterprises	8.8%	8.9%
333 Machinery Manufacturing	7.2%	6.7%
Self-Employed Workers	5.5%	5.8%
339 Miscellaneous Manufacturing	5.1%	4.7%

17-3011 Architectural and Civil Drafters



Prepare detailed drawings of architectural and structural features of buildings or drawings and topographical relief maps used in civil engineering projects, such as highways, bridges, and public works. Utilize knowledge of building materials, engineering practices, and mathematics to complete drawings. *Example: Structural Drafter*

Training Category: Associate | none | none

2015 Average Wage:	\$ 25.34
2014 Estimated Employment:	503
2024 Projected Employment:	488
Growth Rate, 2014-2024:	-3.0%
Annual Openings:	6

Industry	2014 Share	2024 Share
5413 Architectural and Engineering Services	57.9%	58.2%
238 Specialty Trade Contractors	13.9%	13.5%
321 Wood Product Manufacturing	7.2%	7.0%
236 Construction of Buildings	n	n
327 Nonmetallic Mineral Product Mfg	n	n
425 Electronic Markets and Agents/Brokers	n	n

17-3012 Electrical and Electronics Drafters



Prepare wiring diagrams, circuit board assembly diagrams, and layout drawings used for manufacture, installation, and repair of electrical equipment in factories, power plants, and buildings. *Example: Electrical Systems Drafter*

Training Category: Associate | none | none

2015 Average Wage:	\$ 30.66
2014 Estimated Employment:	154
2024 Projected Employment:	161
Growth Rate, 2014-2024:	4.6%
Annual Openings:	3

Industry	2014 Share	2024 Share
5413 Architectural and Engineering Services	30.5%	32.9%
334 Computer and Electronic Product Mfg	29.9%	27.3%
238 Specialty Trade Contractors	n	n
333 Machinery Manufacturing	n	n
335 Electrical Equipment and Appliances	n	n
551 Management of Companies and Enterprises	n	n

17-3013 Mechanical Drafters



Prepare detailed working diagrams of machinery and mechanical devices, including dimensions, fastening methods, and other engineering information. *Example: Aeronautical Drafter*

Training Category: Associate | none | none

2015 Average Wage:	\$ 28.96
2014 Estimated Employment:	287
2024 Projected Employment:	269
Growth Rate, 2014-2024:	-6.3%
Annual Openings:	3

Industry	2014 Share	2024 Share
334 Computer and Electronic Product Mfg	19.9%	18.6%
5413 Architectural and Engineering Services	16.7%	17.8%
333 Machinery Manufacturing	10.1%	9.7%
332 Fabricated Metal Product Manufacturing	10.1%	10.8%
336 Transportation Equipment Manufacturing	n	n
5417 Scientific Research and Development Svc	n	n

17-3019 Drafters, All Other



All drafters not listed separately. *Examples: Geological Drafter; Hull Drafter*

Training Category: Associate | none | none

2015 Average Wage:	\$ 26.31
2014 Estimated Employment:	191
2024 Projected Employment:	181
Growth Rate, 2014-2024:	-5.2%
Annual Openings:	2

Industry	2014 Share	2024 Share
238 Specialty Trade Contractors	13.6%	13.3%
332 Fabricated Metal Product Manufacturing	n	n
333 Machinery Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n
339 Miscellaneous Manufacturing	n	n
5413 Architectural and Engineering Services	n	n

17-3021 Aerospace Engineering and Operations Technicians



Operate, install, calibrate, and maintain integrated computer/communications systems consoles, simulators, and other data acquisition, test, and measurement instruments and equipment to launch, track, position, and evaluate air and space vehicles. May record and interpret test data.

Example: *Fight Data Technician*

Training Category: Associate | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	n	n

17-3022 Civil Engineering Technicians



Apply theory and principles of civil engineering in planning, designing, and overseeing construction and maintenance of structures and facilities under the direction of engineering staff or physical scientists. Example: *Highway Technician*

Training Category: Associate | none | none

2015 Average Wage:	\$ 22.07
2014 Estimated Employment:	156
2024 Projected Employment:	165
Growth Rate, 2014-2024:	5.8%
Annual Openings:	5

Industry	2014 Share	2024 Share
5413 Architectural and Engineering Services	76.3%	76.4%
Local Government, ex. Education	21.8%	21.8%
221 Utilities	n	n
6113 Colleges and Universities	n	n

17-3023 Electrical and Electronics Engineering Technicians



Apply electrical and electronic theory and related knowledge, usually under the direction of engineering staff, to design, build, repair, calibrate, and modify electrical components, circuitry, controls, and machinery for subsequent evaluation and use by engineering staff in making engineering design decisions. Examples: *Calibration Laboratory Technician; Semiconductor Development Technician; Instrumentation Technician*

Training Category: Associate | none | none

2015 Average Wage:	\$ 26.36
2014 Estimated Employment:	1,078
2024 Projected Employment:	1,078
Growth Rate, 2014-2024:	0.0%
Annual Openings:	26

Industry	2014 Share	2024 Share
334 Computer and Electronic Product Mfg	50.1%	48.2%
335 Electrical Equipment and Appliances	9.9%	9.2%
5413 Architectural and Engineering Services	7.2%	8.0%
333 Machinery Manufacturing	4.2%	4.0%
551 Management of Companies and Enterprises	3.3%	3.5%
5416 Management & Technical Consulting Svc	n	n

17-3024 Electro-Mechanical Technicians



Operate, test, and maintain unmanned, automated, servo-mechanical, or electromechanical equipment. May operate unmanned submarines, aircraft, or other equipment at worksites, such as oil rigs, deep ocean exploration, or hazardous waste removal. May assist engineers in testing and designing robotics equipment. Example: *Robotics Testing Technician*

Training Category: Associate | none | none

2015 Average Wage:	\$ 25.39
2014 Estimated Employment:	158
2024 Projected Employment:	163
Growth Rate, 2014-2024:	3.2%
Annual Openings:	4

Industry	2014 Share	2024 Share
334 Computer and Electronic Product Mfg	n	n
336 Transportation Equipment Manufacturing	n	n
551 Management of Companies and Enterprises	n	n
5613 Employment Services	n	n

17-3025 Environmental Engineering Technicians



Apply theory and principles of environmental engineering to modify, test, and operate equipment and devices used in the prevention, control, and remediation of environmental pollution, including waste treatment and site remediation. May assist in the development of environmental pollution remediation devices under direction of engineer. *Examples: Air Analysis Technician; Soil Technician*

Training Category: Associate | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n
5413 Architectural and Engineering Services	n	n
Local Government, ex. Education	n	n

17-3026 Industrial Engineering Technicians



Apply engineering theory and principles to problems of industrial layout or manufacturing production, usually under the direction of engineering staff. May study and record time, motion, method, and speed involved in performance of production, maintenance, clerical, and other worker operations for such purposes as establishing standard production rates or improving efficiency. *Examples: Methods Study Analyst; Quality Control Technician; Time Study Analyst*

Training Category: Associate | none | none

2015 Average Wage:	\$ 25.27
2014 Estimated Employment:	419
2024 Projected Employment:	425
Growth Rate, 2014-2024:	1.4%
Annual Openings:	11

Industry	2014 Share	2024 Share
334 Computer and Electronic Product Mfg	32.0%	30.8%
332 Fabricated Metal Product Manufacturing	22.9%	24.5%
333 Machinery Manufacturing	16.7%	16.2%
326 Plastics & Rubber Products Manufacturing	7.2%	6.6%
335 Electrical Equipment and Appliances	6.4%	5.9%
313 Textile Mills	n	n

17-3027 Mechanical Engineering Technicians



Apply theory and principles of mechanical engineering to modify, develop, and test machinery and equipment under direction of engineering staff or physical scientists. *Examples: Heat Transfer Technician; Optomechanical Technician; Tool Analyst*

Training Category: Associate | none | none

2015 Average Wage:	\$ 25.22
2014 Estimated Employment:	375
2024 Projected Employment:	406
Growth Rate, 2014-2024:	8.3%
Annual Openings:	12

Industry	2014 Share	2024 Share
5417 Scientific Research and Development Svc	34.1%	38.2%
333 Machinery Manufacturing	15.2%	13.8%
332 Fabricated Metal Product Manufacturing	10.9%	10.8%
331 Primary Metal Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n
339 Miscellaneous Manufacturing	n	n

17-3029 Engineering Technicians, Except Drafters, All Other



All engineering technicians, except drafters, not listed separately. *Examples: Laser Specialist; Metallurgical Technician; Material Stress Tester*

Training Category: Associate | none | none

2015 Average Wage:	\$ 24.40
2014 Estimated Employment:	559
2024 Projected Employment:	569
Growth Rate, 2014-2024:	1.8%
Annual Openings:	15

Industry	2014 Share	2024 Share
334 Computer and Electronic Product Mfg	23.4%	22.5%
State Government, ex. Education and Hospitals	23.4%	24.4%
333 Machinery Manufacturing	11.6%	11.1%
339 Miscellaneous Manufacturing	7.2%	7.2%
332 Fabricated Metal Product Manufacturing	5.4%	5.8%
Federal Government, ex. Postal Service	4.7%	4.0%

17-3031 Surveying and Mapping Technicians



Perform surveying and mapping duties, usually under the direction of a surveyor, cartographer, or photogrammetrist to obtain data used for construction, mapmaking, boundary location, mining, or other purposes. May calculate mapmaking information and create maps from source data, such as surveying notes, aerial photography, satellite data, or other maps to show topographical features, political boundaries, and other features. May verify accuracy and completeness of topographical maps. *Examples: Cartographic Technician; Map Drafter; Stereo Map Plotter Operator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 20.53
2014 Estimated Employment:	224
2024 Projected Employment:	207
Growth Rate, 2014-2024:	-7.6%
Annual Openings:	2

Industry		2014 Share	2024 Share
5413	Architectural and Engineering Services	70.5%	70.1%
	State Government, ex. Education and Hospitals	14.7%	14.5%
	Self-Employed Workers	8.5%	9.7%
	Local Government, ex. Education	3.6%	3.4%
221	Utilities	n	n
813	Membership Organizations & Associations	n	n

19-1011 Animal Scientists



Conduct research in the genetics, nutrition, reproduction, growth, and development of domestic farm animals. *Example: Dairy Scientist*

Training Category: Bachelor | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
551	Management of Companies and Enterprises	n	n

19-1012 Food Scientists and Technologists



Use chemistry, microbiology, engineering, and other sciences to study the principles underlying the processing and deterioration of foods; analyze food content to determine levels of vitamins, fat, sugar, and protein. *Example: Food Safety Scientist*

Training Category: Bachelor | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
	Self-Employed Workers	n	n
311	Food Manufacturing	n	n

19-1013 Soil and Plant Scientists



Conduct research in breeding, physiology, production, yield, and management of crops and agricultural plants, their growth in soils, and control of pests; or study the chemical, physical, biological, and mineralogical composition of soils as they relate to plant or crop growth. May classify and map soils and investigate effects of alternative practices on soil and crop productivity. *Example: Horticulturalist*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 44.00
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
	Self-Employed Workers	n	n
5417	Scientific Research and Development Svc	n	n
	Federal Government, ex. Postal Service	n	n
	State Government, ex. Education and Hospitals	n	n

19-1021 Biochemists and Biophysicists



Study the chemical composition and physical properties of living cells and organisms, their electrical and mechanical energy, and related phenomena. *Examples: Clinical Biochemist, Physical Biochemist*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$ 39.92
2014 Estimated Employment:	90
2024 Projected Employment:	105
Growth Rate, 2014-2024:	16.7%
Annual Openings:	4

Industry	2014 Share	2024 Share
5417 Scientific Research and Development Svc	50.0%	54.3%
6113 Colleges and Universities	30.0%	26.7%
Self-Employed Workers	3.3%	2.9%
325 Chemical Manufacturing	n	n
622 Hospitals	n	n

19-1022 Microbiologists



Investigate the growth, structure, development, and other characteristics of microscopic organisms, such as bacteria, algae, or fungi. Include medical microbiologists who study the relationship between organisms and disease or the effects of antibiotics on microorganisms. *Examples: Bacteriologist, Virologist*

Training Category: Bachelor | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	26
2024 Projected Employment:	26
Growth Rate, 2014-2024:	0.0%
Annual Openings:	1

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	65.4%	65.4%
Federal Government, ex. Postal Service	7.7%	7.7%
Self-Employed Workers	3.9%	3.9%
339 Miscellaneous Manufacturing	n	n
622 Hospitals	n	n

19-1023 Zoologists and Wildlife Biologists



Study the origins, behavior, diseases, genetics, and life processes of animals and wildlife. May specialize in wildlife research and management, including the collection and analysis of biological data to determine the environmental effects of present and potential use of land and water areas. *Example: Ornithologist*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 26.59
2014 Estimated Employment:	101
2024 Projected Employment:	107
Growth Rate, 2014-2024:	5.9%
Annual Openings:	4

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	44.6%	43.9%
813 Membership Organizations & Associations	38.6%	40.2%
Federal Government, ex. Postal Service	12.9%	12.2%
Self-Employed Workers	n	n
5417 Scientific Research and Development Svc	n	n

19-1029 Biological Scientists, All Other



All biological scientists not listed separately. *Examples: Geneticist; Paleobotanist; Plant Taxonomist*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 44.94
2014 Estimated Employment:	78
2024 Projected Employment:	81
Growth Rate, 2014-2024:	3.9%
Annual Openings:	2

Industry	2014 Share	2024 Share
Federal Government, ex. Postal Service	59.0%	55.6%
Self-Employed Workers	1.3%	1.2%
325 Chemical Manufacturing	n	n
425 Electronic Markets and Agents/Brokers	n	n
5417 Scientific Research and Development Svc	n	n
622 Hospitals	n	n

19-1031 Conservation Scientists



Manage, improve, and protect natural resources to maximize their use without damaging the environment. *Examples: Range Manager; Conservation Officer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 36.75
2014 Estimated Employment:	42
2024 Projected Employment:	45
Growth Rate, 2014-2024:	7.1%
Annual Openings:	2

Industry	2014 Share	2024 Share
Federal Government, ex. Postal Service	78.6%	77.8%
State Government, ex. Education and Hospitals	4.8%	4.4%
Local Government, ex. Education	2.4%	2.2%
Self-Employed Workers	2.4%	2.2%
6116 Other Schools and Instruction	n	n
813 Membership Organizations & Associations	n	n

19-1032 Foresters



Manage forested lands for economic, recreational, and conservation purposes. *Examples: Forest Ecologist; Timber Management Specialist*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 29.45
2014 Estimated Employment:	79
2024 Projected Employment:	95
Growth Rate, 2014-2024:	20.3%
Annual Openings:	5

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	24.1%	22.1%
Federal Government, ex. Postal Service	17.7%	15.8%
523 Financial Investment and Related Activities	n	n
5416 Management & Technical Consulting Svc	n	n
5611 Office Administrative Services	n	n
813 Membership Organizations & Associations	n	n

19-1041 Epidemiologists



Investigate and describe the determinants and distribution of disease, disability, and other health outcomes and develop the means for prevention and control. *Examples: Epidemiology Investigator*

Training Category: Masters | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
6113 Colleges and Universities	n	n
813 Membership Organizations & Associations	n	n
Local Government, ex. Education	n	n

19-1042 Medical Scientists, Except Epidemiologists



Conduct research dealing with the understanding of human diseases and the improvement of human health. Engage in clinical investigation or other research, production, technical writing, or related activities. Include medical scientists such as physicians, dentists, public health specialists, pharmacologists, and medical pathologists. Exclude practitioners who provide medical or dental care or dispense drugs. *Examples: Cancer Researcher; Toxicologist; Virologist*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$ 30.91
2014 Estimated Employment:	418
2024 Projected Employment:	443
Growth Rate, 2014-2024:	6.0%
Annual Openings:	15

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	1.2%	1.1%
5417 Scientific Research and Development Svc	n	n
551 Management of Companies and Enterprises	n	n
6113 Colleges and Universities	n	n
621 Ambulatory Health Care Services	n	n
622 Hospitals	n	n

19-1099 Life Scientists, All Other



All life scientists not listed separately *Example: Life Science Taxonomist*

Training Category: Bachelor | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	23
2024 Projected Employment:	25
Growth Rate, 2014-2024:	8.7%
Annual Openings:	1

Industry	2014 Share	2024 Share
339 Miscellaneous Manufacturing	n	n
5413 Architectural and Engineering Services	n	n
5414 Specialized Design Services	n	n
5417 Scientific Research and Development Svc	n	n
6113 Colleges and Universities	n	n
813 Membership Organizations & Associations	n	n

19-2011 Astronomers



Observe, research, and interpret celestial and astronomical phenomena to increase basic knowledge and apply such information to practical problems. *Example: Astrophysicist*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
6113 Colleges and Universities	n	n

19-2012 Physicists



Conduct research into the phases of physical phenomena, develop theories and laws on the basis of observation and experiments, and devise methods to apply laws and theories to industry and other fields. *Examples: Fluid Dynamicist; Rheologist; Thermodynamicist*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$ 43.00
2014 Estimated Employment:	55
2024 Projected Employment:	58
Growth Rate, 2014-2024:	5.5%
Annual Openings:	1

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	12.7%	13.8%
221 Utilities	n	n
5416 Management & Technical Consulting Svc	n	n
6113 Colleges and Universities	n	n
621 Ambulatory Health Care Services	n	n
622 Hospitals	n	n

19-2021 Atmospheric and Space Scientists



Investigate atmospheric phenomena and interpret meteorological data gathered by surface and air stations, satellites, and radar to prepare reports and forecasts for public and other uses. Include weather analysts and forecasters whose functions require the detailed knowledge of a meteorologist. *Examples: Meteorologist*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 34.77
2014 Estimated Employment:	49
2024 Projected Employment:	68
Growth Rate, 2014-2024:	38.8%
Annual Openings:	3

Industry	2014 Share	2024 Share
Federal Government, ex. Postal Service	8.2%	4.4%
Self-Employed Workers	n	n
5419 Other Professional & Technical Services	n	n

19-2031 Chemists



Conduct qualitative and quantitative chemical analyses or chemical experiments in laboratories for quality or process control or to develop new products or knowledge. *Examples: Inorganic Chemist; Chemical Analyst*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 30.42
2014 Estimated Employment:	294
2024 Projected Employment:	300
Growth Rate, 2014-2024:	2.0%
Annual Openings:	7

Industry	2014 Share	2024 Share
221 Utilities	n	n
325 Chemical Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n
339 Miscellaneous Manufacturing	n	n
425 Electronic Markets and Agents/Brokers	n	n
5413 Architectural and Engineering Services	n	n

19-2032 Materials Scientists



Research and study the structures and chemical properties of various natural and manmade materials, including metals, alloys, rubber, ceramics, semiconductors, polymers, and glass. Determine ways to strengthen or combine materials or develop new materials with new or specific properties for use in a variety of products and applications. *Examples: Ceramics Scientists, Metallurgical Scientists*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 45.69
2014 Estimated Employment:	33
2024 Projected Employment:	32
Growth Rate, 2014-2024:	-3.0%
Annual Openings:	1

Industry	2014 Share	2024 Share
313 Textile Mills	n	n
325 Chemical Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n
335 Electrical Equipment and Appliances	n	n
6113 Colleges and Universities	n	n

19-2041 Environmental Scientists and Specialists, Including Health



Conduct research or perform investigation for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or the health of the population. *Examples: Environmental Analyst; Water Pollution Specialist*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 35.05
2014 Estimated Employment:	444
2024 Projected Employment:	528
Growth Rate, 2014-2024:	18.9%
Annual Openings:	22

Industry	2014 Share	2024 Share
5416 Management & Technical Consulting Svc	36.9%	42.1%
State Government, ex. Education and Hospitals	35.6%	33.0%
5413 Architectural and Engineering Services	14.6%	13.5%
Local Government, ex. Education	3.4%	3.2%
5417 Scientific Research and Development Svc	n	n
551 Management of Companies and Enterprises	n	n

19-2042 Geoscientists, Except Hydrologists and Geographers



Study the composition, structure, and other physical aspects of the earth. *Examples: Oceanographer; Paleontologist*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 41.47
2014 Estimated Employment:	75
2024 Projected Employment:	83
Growth Rate, 2014-2024:	10.7%
Annual Openings:	3

Industry	2014 Share	2024 Share
5413 Architectural and Engineering Services	50.7%	50.6%
5416 Management & Technical Consulting Svc	21.3%	25.3%
Federal Government, ex. Postal Service	16.0%	13.3%
State Government, ex. Education and Hospitals	6.7%	6.0%
Self-Employed Workers	n	n
6113 Colleges and Universities	n	n

19-2043 Hydrologists



Research the distribution, circulation, and physical properties of underground and surface waters; study the form and intensity of precipitation, its rate of infiltration into the soil, movement through the earth, and its return to the ocean and atmosphere. *Example: Hydrogeologist*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 39.17
2014 Estimated Employment:	58
2024 Projected Employment:	63
Growth Rate, 2014-2024:	8.6%
Annual Openings:	2

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	43.1%	41.3%
5413 Architectural and Engineering Services	25.9%	27.0%
Federal Government, ex. Postal Service	19.0%	15.9%
5416 Management & Technical Consulting Svc	n	n
Self-Employed Workers	n	n

19-2099 Physical Scientists, All Other



All physical scientists not listed separately.

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 34.29
2014 Estimated Employment:	212
2024 Projected Employment:	219
Growth Rate, 2014-2024:	3.3%
Annual Openings:	3

Industry	2014 Share	2024 Share
Federal Government, ex. Postal Service	20.8%	19.6%
State Government, ex. Education and Hospitals	14.2%	14.6%
Self-Employed Workers	8.5%	8.7%
334 Computer and Electronic Product Mfg	n	n
5417 Scientific Research and Development Svc	n	n
6113 Colleges and Universities	n	n

19-3011 Economists



Conduct research, prepare reports, or formulate plans to aid in solution of economic problems arising from production and distribution of goods and services. May collect and process economic and statistical data using econometric and sampling techniques. *Examples: Econometrician; Economic Research Analyst; Industrial Economist*

Training Category: Masters | none | none

2015 Average Wage:	\$ 39.05
2014 Estimated Employment:	50
2024 Projected Employment:	54
Growth Rate, 2014-2024:	8.0%
Annual Openings:	1

Industry	2014 Share	2024 Share
519 Other Information Services	34.0%	33.3%
State Government, ex. Education and Hospitals	28.0%	27.8%
6113 Colleges and Universities	18.0%	18.5%
5417 Scientific Research and Development Svc	8.0%	7.4%
Self-Employed Workers	n	n
551 Management of Companies and Enterprises	n	n

19-3022 Survey Researchers



Design or conduct surveys. May supervise interviewers who conduct the survey in person or over the telephone. May present survey results to client. *Example: Pollster*

Training Category: Masters | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
6113 Colleges and Universities	n	n

19-3031 Clinical, Counseling, and School Psychologists



Diagnose and treat mental disorders; learning disabilities; and cognitive, behavioral, and emotional problems using individual, child, family, and group therapies. May design and implement behavior modification programs. *Examples: Vocational Psychologist; Child Psychologist*

Training Category: Doctorate/Prof | none | Intern /Res

2015 Average Wage:	\$ 34.87
2014 Estimated Employment:	468
2024 Projected Employment:	556
Growth Rate, 2014-2024:	18.8%
Annual Openings:	19

Industry	2014 Share	2024 Share
6111 Elementary and Secondary Schools	37.0%	32.0%
Self-Employed Workers	28.2%	32.0%
621 Ambulatory Health Care Services	20.9%	23.2%
6113 Colleges and Universities	3.2%	2.9%
622 Hospitals	n	n
623 Nursing and Residential Care Facilities	n	n

19-3039 Psychologists, All Other



All psychologists not listed separately. *Examples: Social Psychologist; Psychometrist*

Training Category: Masters | none | Intern / Res

2015 Average Wage:	n/a
2014 Estimated Employment:	23
2024 Projected Employment:	26
Growth Rate, 2014-2024:	13.0%
Annual Openings:	0

Industry	2014 Share	2024 Share
Federal Government, ex. Postal Service	65.2%	57.7%
Self-Employed Workers	21.7%	26.9%
621 Ambulatory Health Care Services	n	n
622 Hospitals	n	n

19-3051 Urban and Regional Planners



Develop comprehensive plans and programs for use of land and physical facilities of local jurisdictions, such as towns, cities, counties, and metropolitan areas. *Example: City Planner*

Training Category: Masters | none | none

2015 Average Wage:	\$ 30.49
2014 Estimated Employment:	199
2024 Projected Employment:	210
Growth Rate, 2014-2024:	5.5%
Annual Openings:	5

Industry	2014 Share	2024 Share
Local Government, ex. Education	83.9%	84.3%
State Government, ex. Education and Hospitals	11.6%	11.4%
5413 Architectural and Engineering Services	3.5%	3.3%
Federal Government, ex. Postal Service	0.5%	0.5%
Self-Employed Workers	0.5%	0.5%

19-3091 Anthropologists and Archeologists



Study the origin, development, and behavior of humans. May study the way of life, language, or physical characteristics of existing people in various parts of the world. May engage in systematic recovery and examination of material evidence, such as tools or pottery remaining from past human cultures, in order to determine the history, customs, and living habits of earlier civilizations. *Example: Research Anthropologist*

Training Category: Masters | none | none

2015 Average Wage:	\$ 30.72
2014 Estimated Employment:	27
2024 Projected Employment:	34
Growth Rate, 2014-2024:	25.9%
Annual Openings:	1

Industry	2014 Share	2024 Share
Federal Government, ex. Postal Service	7.4%	5.9%
Self-Employed Workers	3.7%	2.9%
5416 Management & Technical Consulting Svc	n	n
6113 Colleges and Universities	n	n

19-3093 Historians



Research, analyze, record, and interpret the past as recorded in sources, such as government and institutional records, newspapers and other periodicals, photographs, interviews, films, and unpublished manuscripts, such as personal diaries and letters. *Example: Genealogist*

Training Category: Masters | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	n	n

19-3094 Political Scientists



Study the origin, development, and operation of political systems. Research a wide range of subjects, such as relations between the United States and foreign countries, the beliefs and institutions of foreign nations, or the politics of small towns or a major metropolis. May study topics, such as public opinion, political decision making, and ideology. May analyze the structure and operation of governments, as well as various political entities. May conduct public opinion surveys, analyze election results, or analyze public documents. *Examples: Political Consultant, Political Research Scientist*

Training Category: Masters | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
5417 Scientific Research and Development Svc	n	n
813 Membership Organizations & Associations	n	n

19-3099 Social Scientists and Related Workers, All Other



All social scientists and related workers not listed separately. *Examples: Ethnologist; Linguist; Philologist*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 35.16
2014 Estimated Employment:	142
2024 Projected Employment:	147
Growth Rate, 2014-2024:	3.5%
Annual Openings:	2

Industry	2014 Share	2024 Share
6113 Colleges and Universities	39.4%	39.5%
Federal Government, ex. Postal Service	26.1%	24.5%
State Government, ex. Education and Hospitals	16.2%	16.3%
Self-Employed Workers	1.4%	1.4%
5417 Scientific Research and Development Svc	n	n
6117 Educational Support Services	n	n

19-4011 Agricultural and Food Science Technicians



Work with agricultural scientists in food, fiber, and animal research, production, and processing; assist with animal breeding and nutrition work; under supervision, conduct tests and experiments to improve yield and quality of crops or to increase the resistance of plants and animals to disease or insects. Include technicians who assist food scientists or food technologists in the research, development, production technology, quality control, packaging, processing, and use of foods. *Examples: Dairy Technologist, Seed Analyst*

Training Category: Associate | none | Moderate OJT

2015 Average Wage:	\$ 20.80
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
112 Animal Production	n	n
312 Beverage & Tobacco Product Manufacturing	n	n
5417 Scientific Research and Development Svc	n	n
6113 Colleges and Universities	n	n

19-4021 Biological Technicians



Assist biological and medical scientists in laboratories. Set up, operate, and maintain laboratory instruments and equipment, monitor experiments, make observations, and calculate and record results. May analyze organic substances, such as blood, food, and drugs. *Examples: Biotechnologist; Wildlife Technician; Specimen Technician*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 21.88
2014 Estimated Employment:	253
2024 Projected Employment:	286
Growth Rate, 2014-2024:	13.0%
Annual Openings:	10

Industry	2014 Share	2024 Share
6113 Colleges and Universities	28.1%	26.2%
Federal Government, ex. Postal Service	6.7%	5.9%
325 Chemical Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n
5417 Scientific Research and Development Svc	n	n
622 Hospitals	n	n

19-4031 Chemical Technicians



Conduct chemical and physical laboratory tests to assist scientists in making qualitative and quantitative analyses of solids, liquids, and gaseous materials for purposes, such as research and development of new products or processes, quality control, maintenance of environmental standards, and other work involving experimental, theoretical, or practical application of chemistry and related sciences. *Examples: Fiber Analyst; Paint Tester*

Training Category: Associate | none | Moderate OJT

2015 Average Wage:	\$ 20.22
2014 Estimated Employment:	150
2024 Projected Employment:	158
Growth Rate, 2014-2024:	5.3%
Annual Openings:	5

Industry	2014 Share	2024 Share
5413 Architectural and Engineering Services	18.0%	18.4%
6113 Colleges and Universities	6.7%	6.3%
325 Chemical Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n
339 Miscellaneous Manufacturing	n	n
424 Merchant Wholesalers, Nondurable Goods	n	n

19-4041 Geological and Petroleum Technicians



Assist scientists in the use of electrical, sonic, or nuclear measuring instruments in both laboratory and production activities to obtain data indicating potential sources of metallic ore, gas or petroleum. *Examples: Field Scout; Crude Tester; Seismic Observer*

Training Category: Associate | none | Moderate OJT

2015 Average Wage:	\$ 19.64
2014 Estimated Employment:	25
2024 Projected Employment:	28
Growth Rate, 2014-2024:	12.0%
Annual Openings:	1

Industry	2014 Share	2024 Share
5413 Architectural and Engineering Services	64.0%	60.7%
5419 Other Professional & Technical Services	n	n
State Government, ex. Education and Hospitals	n	n

19-4051 Nuclear Technicians



Assist scientists in both laboratory and production activities by performing technical tasks involving nuclear physics, primarily in operation, maintenance, production, and quality control support activities. *Examples: Accelerator Operator; Radiation Monitor*

Training Category: Associate | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
221 Utilities	n	n
5416 Management & Technical Consulting Svc	n	n

19-4061 Social Science Research Assistants 

Assist social scientists in laboratory, survey, and other social research. May perform publication activities, laboratory analysis, quality control, or data management. Normally these individuals work under the direct supervision of a social scientist and assist in those activities which are more routine. *Examples: City Planning Aide; Economic Research Assistant*

Training Category: Bachelor | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
5416 Management & Technical Consulting Svc	n	n
6113 Colleges and Universities	n	n
Local Government, ex. Education	n	n

19-4091 Environmental Science and Protection Technicians, Including Health 

Performs laboratory and field tests to monitor the environment and investigate sources of pollution, including those that affect health. Under direction of an environmental scientist or specialist, may collect samples of gases, soil, water, and other materials for testing and take corrective actions as assigned. *Example: Pollution Control Technician*

Training Category: Associate | none | none

2015 Average Wage:	\$ 20.22
2014 Estimated Employment:	237
2024 Projected Employment:	265
Growth Rate, 2014-2024:	11.8%
Annual Openings:	13

Industry	2014 Share	2024 Share
5413 Architectural and Engineering Services	40.1%	38.1%
5416 Management & Technical Consulting Svc	26.2%	31.3%
State Government, ex. Education and Hospitals	8.9%	7.6%
Local Government, ex. Education	7.6%	6.8%
6113 Colleges and Universities	5.1%	4.5%
5417 Scientific Research and Development Svc	4.6%	4.9%

19-4092 Forensic Science Technicians 

Collect, identify, classify, and analyze physical evidence related to criminal investigations. Perform tests on weapons or substances, such as fiber, hair, and tissue to determine significance to investigation. May testify as expert witnesses on evidence or crime laboratory techniques. May serve as specialists in area of expertise, such as ballistics, fingerprinting, handwriting, or biochemistry. *Examples: Ballistic Expert; Fingerprint Classifier; Polygraph Examiner*

Training Category: Bachelor | none | Moderate OJT

2015 Average Wage:	\$ 32.90
2014 Estimated Employment:	39
2024 Projected Employment:	49
Growth Rate, 2014-2024:	25.6%
Annual Openings:	3

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	94.9%	95.9%
Local Government, ex. Education	5.1%	4.1%

19-4093 Forest and Conservation Technicians 

Compile data pertaining to size, content, condition, and other characteristics of forest tracts, under direction of foresters; train and lead forest workers in forest propagation, fire prevention and suppression. May assist conservation scientists in managing, improving, and protecting rangelands and wildlife habitats, and help provide technical assistance regarding the conservation of soil, water, and related natural resources. *Examples: Grazing Examiner; Soil Tester; Tree Warden*

Training Category: Associate | none | none

2015 Average Wage:	\$ 18.35
2014 Estimated Employment:	67
2024 Projected Employment:	65
Growth Rate, 2014-2024:	-3.0%
Annual Openings:	3

Industry	2014 Share	2024 Share
Federal Government, ex. Postal Service	82.1%	81.5%
Local Government, ex. Education	10.5%	10.8%
813 Membership Organizations & Associations	4.5%	4.6%
113 Forestry and Logging	3.0%	3.1%

19-4099 Life, Physical, and Social Science Technicians, All Other



All life, physical, and social science technicians not listed separately. *Examples: Laser Technician; Radiographer; Meteorological Aide*

Training Category: Associate | none | none

2015 Average Wage:	\$ 23.71
2014 Estimated Employment:	184
2024 Projected Employment:	199
Growth Rate, 2014-2024:	8.2%
Annual Openings:	10

Industry	2014 Share	2024 Share
5413 Architectural and Engineering Services	28.8%	28.1%
6113 Colleges and Universities	19.6%	19.1%
5613 Employment Services	8.7%	10.6%
Federal Government, ex. Postal Service	8.2%	7.5%
5416 Management & Technical Consulting Svc	6.0%	7.5%
335 Electrical Equipment and Appliances	n	n

21-1011 Substance Abuse and Behavioral Disorder Counselors



Counsel and advise individuals with alcohol, tobacco, drug, or other problems, such as gambling and eating disorders. May counsel individuals, families, or groups or engage in prevention programs. *Examples: Addiction Counselor; Chemical Dependency Counselor; Drug Counselor*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 26.96
2014 Estimated Employment:	213
2024 Projected Employment:	271
Growth Rate, 2014-2024:	27.2%
Annual Openings:	10

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	51.6%	52.8%
623 Nursing and Residential Care Facilities	23.5%	25.5%
Self-Employed Workers	6.6%	6.3%
Local Government, ex. Education	3.3%	2.6%
622 Hospitals	n	n
624 Social Assistance	n	n

21-1012 Educational, Guidance, School, and Vocational Counselors



Counsel individuals and provide group educational and vocational guidance services. *Examples: Curriculum Counselor; Educational Adviser*

Training Category: Masters | none | none

2015 Average Wage:	\$ 27.40
2014 Estimated Employment:	1,240
2024 Projected Employment:	1,307
Growth Rate, 2014-2024:	5.4%
Annual Openings:	33

Industry	2014 Share	2024 Share
6111 Elementary and Secondary Schools	61.2%	59.8%
6113 Colleges and Universities	20.5%	21.7%
624 Social Assistance	3.2%	2.9%
State Government, ex. Education and Hospitals	2.7%	2.8%
Self-Employed Workers	2.5%	2.8%
6112 Junior Colleges	n	n

21-1013 Marriage and Family Therapists



Diagnose and treat mental and emotional disorders, whether cognitive, affective, or behavioral, within the context of marriage and family systems. Apply psychotherapeutic and family systems theories and techniques in the delivery of professional services to individuals, couples, and families for the purpose of treating such diagnosed nervous and mental disorders. *Example: Family Counselor*

Training Category: Masters | none | Intern / Res

2015 Average Wage:	\$ 27.68
2014 Estimated Employment:	250
2024 Projected Employment:	285
Growth Rate, 2014-2024:	14.0%
Annual Openings:	9

Industry	2014 Share	2024 Share
622 Hospitals	51.2%	50.9%
624 Social Assistance	26.8%	24.2%
621 Ambulatory Health Care Services	11.6%	13.7%
Self-Employed Workers	6.0%	6.3%
623 Nursing and Residential Care Facilities	4.4%	4.9%

21-1014 Mental Health Counselors



Counsel with emphasis on prevention. Work with individuals and groups to promote optimum mental health. May help individuals deal with addictions and substance abuse; family, parenting, and marital problems; suicide; stress management; problems with self-esteem; and issues associated with aging and mental and emotional health.

Training Category: Masters | none | Intern / Res

2015 Average Wage:	\$ 23.29
2014 Estimated Employment:	619
2024 Projected Employment:	758
Growth Rate, 2014-2024:	22.5%
Annual Openings:	27

Industry	2014 Share	2024 Share
621 Hospitals	61.6%	65.0%
624 Social Assistance	16.0%	13.5%
Self-Employed Workers	6.8%	6.7%
623 Nursing and Residential Care Facilities	5.8%	6.2%
Local Government, ex. Education	2.3%	2.0%
6113 Colleges and Universities	n	n

21-1015 Rehabilitation Counselors



Counsel individuals to maximize the independence and employability of persons coping with personal, social, and vocational difficulties that result from birth defects, illness, disease, accidents, or the stress of daily life. Coordinate activities for residents of care and treatment facilities. Assess client needs and design and implement rehabilitation programs that may include personal and vocational counseling, training, and job placement. *Examples: Coordinator of Rehabilitation Services; Homemaking Rehabilitation Consultant*

Training Category: Masters | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	530
2024 Projected Employment:	597
Growth Rate, 2014-2024:	12.6%
Annual Openings:	18

Industry	2014 Share	2024 Share
624 Social Assistance	47.2%	41.7%
621 Ambulatory Health Care Services	25.3%	30.0%
623 Nursing and Residential Care Facilities	10.8%	12.1%
State Government, ex. Education and Hospitals	9.1%	8.4%
Self-Employed Workers	5.9%	6.2%
622 Hospitals	n	n

21-1019 Counselors, All Other



All counselors not listed separately. *Examples: Mental Hygienist; Race Relations Adviser*

Training Category: Masters | none | none

2015 Average Wage:	\$ 16.98
2014 Estimated Employment:	240
2024 Projected Employment:	267
Growth Rate, 2014-2024:	11.3%
Annual Openings:	8

Industry	2014 Share	2024 Share
624 Social Assistance	29.2%	27.0%
623 Nursing and Residential Care Facilities	21.3%	23.2%
6111 Elementary and Secondary Schools	11.3%	10.5%
621 Ambulatory Health Care Services	6.3%	7.5%
6113 Colleges and Universities	n	n
622 Hospitals	n	n

21-1021 Child, Family, and School Social Workers



Provide social services and assistance to improve the social and psychological functioning of children and their families and to maximize the family well-being and the academic functioning of children. May assist single parents, arrange adoptions, and find foster homes for abandoned or abused children. In schools, they address such problems as teenage pregnancy, misbehavior, and truancy. May also advise teachers on how to deal with problem children. *Examples: Adoption Agent; Child Abuse Worker*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 20.44
2014 Estimated Employment:	585
2024 Projected Employment:	650
Growth Rate, 2014-2024:	11.1%
Annual Openings:	20

Industry	2014 Share	2024 Share
624 Social Assistance	26.8%	24.9%
State Government, ex. Education and Hospitals	23.4%	22.0%
621 Ambulatory Health Care Services	22.9%	27.5%
6111 Elementary and Secondary Schools	17.4%	16.2%
623 Nursing and Residential Care Facilities	3.6%	3.7%
551 Management of Companies and Enterprises	n	n

21-1022 Healthcare Social Workers



Provide persons, families, or vulnerable populations with the psychosocial support needed to cope with chronic, acute, or terminal illnesses, such as Alzheimer's, cancer, or AIDS. Services include advising family care givers, providing patient education and counseling, and making necessary referrals for other social services. *Examples: Bereavement Counselor; Hospice Social Worker; Medical Caseworker*

Training Category: Masters | none | none

2015 Average Wage:	\$ 26.98
2014 Estimated Employment:	552
2024 Projected Employment:	659
Growth Rate, 2014-2024:	19.4%
Annual Openings:	24

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	26.5%	32.5%
622 Hospitals	25.5%	22.6%
623 Nursing and Residential Care Facilities	15.4%	15.5%
State Government, ex. Education and Hospitals	15.4%	13.7%
624 Social Assistance	10.3%	9.6%
Local Government, ex. Education	2.7%	2.3%

21-1023 Mental Health and Substance Abuse Social Workers



Assess and treat individuals with mental, emotional, or substance abuse problems, including abuse of alcohol, tobacco, and/or other drugs. Activities may include individual and group therapy, crisis intervention, case management, client advocacy, prevention, and education. *Examples: Community Mental Health Worker; Psychiatric Social Worker*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 28.04
2014 Estimated Employment:	305
2024 Projected Employment:	377
Growth Rate, 2014-2024:	23.6%
Annual Openings:	14

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	69.8%	73.5%
State Government, ex. Education and Hospitals	9.5%	8.2%
622 Hospitals	8.2%	7.2%
624 Social Assistance	5.9%	4.8%
Local Government, ex. Education	2.6%	2.4%
Self-Employed Workers	2.3%	2.1%

21-1029 Social Workers, All Other



All social workers not listed separately. *Examples: Case Worker; Case Supervisor; Welfare Investigator*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 30.08
2014 Estimated Employment:	122
2024 Projected Employment:	126
Growth Rate, 2014-2024:	3.3%
Annual Openings:	3

Industry	2014 Share	2024 Share
624 Social Assistance	39.3%	40.5%
Federal Government, ex. Postal Service	28.7%	27.0%
622 Hospitals	13.1%	12.7%
623 Nursing and Residential Care Facilities	5.7%	7.1%
524 Insurance Carriers & Related Activities	n	n
5613 Employment Services	n	n

21-1091 Health Educators



Promote, maintain, and improve individual and community health by assisting individuals and communities to adopt healthy behaviors. Collect and analyze data to identify community needs prior to planning, implementing, monitoring, and evaluating programs designed to encourage healthy lifestyles, policies and environments. May also serve as a resource to assist individuals, other professionals, or the community, and may administer fiscal resources for health education programs. *Examples: Public Health Advisor; Public Health Representative*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 23.45
2014 Estimated Employment:	166
2024 Projected Employment:	188
Growth Rate, 2014-2024:	13.3%
Annual Openings:	5

Industry	2014 Share	2024 Share
624 Social Assistance	19.9%	18.1%
621 Ambulatory Health Care Services	17.5%	21.3%
5417 Scientific Research and Development Svc	13.3%	13.3%
6113 Colleges and Universities	n	n
622 Hospitals	n	n
813 Membership Organizations & Associations	n	n

21-1092 Probation Officers and Correctional Treatment Specialists



Provide social services to assist in rehabilitation of law offenders in custody or on probation or parole. Make recommendations for actions involving formulation of rehabilitation plan and treatment of offender, including conditional release and education and employment stipulations. *Examples: Attendance Officer; Parole Officer*

Training Category: Bachelor | none | Short OJT

2015 Average Wage:	\$ 28.42
2014 Estimated Employment:	173
2024 Projected Employment:	182
Growth Rate, 2014-2024:	5.2%
Annual Openings:	4

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	94.2%	94.5%
Local Government, ex. Education	5.8%	5.5%

21-1093 Social and Human Service Assistants



Assist professionals from a wide variety of fields, such as psychology, rehabilitation, or social work, to provide client services, as well as support for families. May assist clients in identifying available benefits and social and community services and help clients obtain them. May assist social workers with developing, organizing, and conducting programs to prevent and resolve problems relevant to substance abuse, human relationships, rehabilitation, or adult daycare. *Examples: Case Aide; Home Visitor; Human Services Worker*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 14.36
2014 Estimated Employment:	2,187
2024 Projected Employment:	2,460
Growth Rate, 2014-2024:	12.5%
Annual Openings:	70

Industry	2014 Share	2024 Share
624 Social Assistance	54.9%	51.1%
621 Ambulatory Health Care Services	16.5%	19.6%
623 Nursing and Residential Care Facilities	12.3%	13.8%
813 Membership Organizations & Associations	7.1%	6.8%
State Government, ex. Education and Hospitals	5.3%	5.0%
551 Management of Companies and Enterprises	1.4%	1.3%

21-1094 Community Health Workers



Assist individuals and communities to adopt healthy behaviors. Conduct outreach for medical personnel or health organizations to implement programs in the community that promote, maintain, and improve individual and community health. May provide information on available resources, provide social support and informal counseling, advocate for individuals and community health needs, and provide services such as first aid and blood pressure screening. May collect data to help identify community health needs. *Examples: Lay Health Advocate; Peer Health Promoter*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 18.29
2014 Estimated Employment:	160
2024 Projected Employment:	189
Growth Rate, 2014-2024:	18.1%
Annual Openings:	6

Industry	2014 Share	2024 Share
624 Social Assistance	40.6%	36.5%
621 Ambulatory Health Care Services	38.1%	43.9%
813 Membership Organizations & Associations	8.8%	7.9%
Local Government, ex. Education	4.4%	3.7%
551 Management of Companies and Enterprises	n	n
622 Hospitals	n	n

21-1099 Community and Social Service Specialists, All Other



All community and social service specialists not listed separately. *Examples: Community Organization Worker; Veterans Service Officer*

Training Category: Masters | none | none

2015 Average Wage:	\$ 21.10
2014 Estimated Employment:	664
2024 Projected Employment:	733
Growth Rate, 2014-2024:	10.4%
Annual Openings:	20

Industry	2014 Share	2024 Share
624 Social Assistance	44.9%	42.7%
813 Membership Organizations & Associations	13.6%	13.1%
623 Nursing and Residential Care Facilities	9.2%	10.4%
551 Management of Companies and Enterprises	7.2%	6.8%
621 Ambulatory Health Care Services	6.5%	8.2%
622 Hospitals	6.3%	6.1%

21-2011 Clergy



Conduct religious worship and perform other spiritual functions associated with beliefs and practices of religious faith or denomination. Provide spiritual and moral guidance and assistance to members. *Examples: Bishop; Parish Priest; Rabbi*

Training Category: Bachelor | none | Moderate OJT

2015 Average Wage:	\$ 28.10
2014 Estimated Employment:	784
2024 Projected Employment:	831
Growth Rate, 2014-2024:	6.0%
Annual Openings:	22

Industry	2014 Share	2024 Share
813 Membership Organizations & Associations	90.8%	89.9%
622 Hospitals	2.9%	2.9%
524 Insurance Carriers & Related Activities	1.9%	1.9%
623 Nursing and Residential Care Facilities	1.2%	1.4%
State Government, ex. Education and Hospitals	0.6%	0.6%
621 Ambulatory Health Care Services	n	n

21-2021 Directors, Religious Activities and Education



Direct and coordinate activities of a denominational group to meet religious needs of students. Plan, direct, or coordinate church school programs designed to promote religious education among church membership. May provide counseling and guidance relative to marital, health, financial, and religious problems. *Examples: Director of Religious Education; Minister of Education; Youth Director*

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	n/a
2014 Estimated Employment:	439
2024 Projected Employment:	462
Growth Rate, 2014-2024:	5.2%
Annual Openings:	14

Industry	2014 Share	2024 Share
813 Membership Organizations & Associations	92.7%	92.4%
524 Insurance Carriers & Related Activities	3.4%	3.5%
6113 Colleges and Universities	n	n
622 Hospitals	n	n
623 Nursing and Residential Care Facilities	n	n

21-2099 Religious Workers, All Other



All religious workers not listed separately. *Examples: Ecclesiastical Worker; Missionary*

Training Category: Bachelor | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	179
2024 Projected Employment:	188
Growth Rate, 2014-2024:	5.0%
Annual Openings:	4

Industry	2014 Share	2024 Share
813 Membership Organizations & Associations	96.7%	96.3%
551 Management of Companies and Enterprises	n	n
6111 Elementary and Secondary Schools	n	n
621 Ambulatory Health Care Services	n	n
622 Hospitals	n	n

23-1011 Lawyers



Represent clients in criminal and civil litigation and other legal proceedings, draw up legal documents, and manage or advise clients on legal transactions. May specialize in a single area or may practice broadly in many areas of law. *Examples: Attorney; Real Estate Attorney; Corporate Counsel*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$ 55.03
2014 Estimated Employment:	2,008
2024 Projected Employment:	2,074
Growth Rate, 2014-2024:	3.3%
Annual Openings:	36

Industry	2014 Share	2024 Share
5411 Legal Services	59.4%	58.1%
Self-Employed Workers	19.4%	18.7%
Local Government, ex. Education	7.7%	8.2%
State Government, ex. Education and Hospitals	2.5%	2.7%
Federal Government, ex. Postal Service	2.1%	2.1%
551 Management of Companies and Enterprises	2.0%	2.2%

23-1021 Administrative Law Judges, Adjudicators, and Hearing Officers



Conduct hearings to decide or recommend decisions on claims concerning government programs or other government-related matters and prepare decisions. Determine penalties or the existence and the amount of liability, or recommend the acceptance or rejection of claims, or compromise settlements. *Example: Traffic Court Referee*

Training Category: Doctorate/Prof | 5+ years | Short OJT

2015 Average Wage:	\$ 33.55
2014 Estimated Employment:	124
2024 Projected Employment:	126
Growth Rate, 2014-2024:	1.6%
Annual Openings:	2

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	91.9%	92.9%
Federal Government, ex. Postal Service	8.1%	7.1%

23-1022 Arbitrators, Mediators, and Conciliators



Facilitate negotiation and conflict resolution through dialogue. Resolve conflicts outside of the court system by mutual consent of parties involved. *Example: Ombudsman*

Training Category: Bachelor | < 5 yr | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	23
2024 Projected Employment:	26
Growth Rate, 2014-2024:	13.0%
Annual Openings:	0

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	13.0%	11.5%
Local Government, ex. Education	13.0%	11.5%
Self-Employed Workers	13.0%	11.5%
6113 Colleges and Universities	4.4%	3.9%
5419 Other Professional & Technical Services	n	n
5614 Business Support Services	n	n

23-1023 Judges, Magistrate Judges, and Magistrates



Arbitrate, advise, adjudicate, or administer justice in a court of law. May sentence defendant in criminal cases according to government statutes. May determine liability of defendant in civil cases. May issue marriage licenses and perform wedding ceremonies. *Examples: Circuit Court Judge; Jurist; Justice*

Training Category: Doctorate/Prof | 5+ years | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	87
2024 Projected Employment:	88
Growth Rate, 2014-2024:	1.1%
Annual Openings:	1

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	95.4%	96.6%
Federal Government, ex. Postal Service	4.6%	3.4%

23-2011 Paralegals and Legal Assistants



Assist lawyers by researching legal precedent, investigating facts, or preparing legal documents. Conduct research to support a legal proceeding, to formulate a defense, or to initiate legal action. *Examples: Legal Assistant; Legal Investigator*

Training Category: Associate | none | none

2015 Average Wage:	\$ 24.35
2014 Estimated Employment:	1,265
2024 Projected Employment:	1,317
Growth Rate, 2014-2024:	4.1%
Annual Openings:	33

Industry	2014 Share	2024 Share
5411 Legal Services	84.4%	83.4%
State Government, ex. Education and Hospitals	3.9%	3.9%
Local Government, ex. Education	3.4%	3.5%
5614 Business Support Services	1.7%	2.1%
Self-Employed Workers	1.5%	1.4%
551 Management of Companies and Enterprises	n	n

23-2091 Court Reporters



Use verbatim methods and equipment to capture, store, retrieve, and transcribe pretrial and trial proceedings or other information. Include stenocaptioners who operate computerized stenographic captioning equipment to provide captions of live or prerecorded broadcasts for hearing-impaired viewers. *Examples: Court Stenographer; Court Transcriber; Deposition Reporter*

Training Category: Postsecondary | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	74
2024 Projected Employment:	79
Growth Rate, 2014-2024:	6.8%
Annual Openings:	2

Industry	2014 Share	2024 Share
Self-Employed Workers	100.0%	100.0%

23-2093 Title Examiners, Abstractors, and Searchers



Search real estate records, examine titles, or summarize pertinent legal or insurance details for a variety of purposes. May compile lists of mortgages, contracts, and other instruments pertaining to titles by searching public and private records for law firms, real estate agencies, or title insurance companies. *Examples: Abstract Clerk; Escrow Officer; Lien Searcher*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 21.28
2014 Estimated Employment:	91
2024 Projected Employment:	88
Growth Rate, 2014-2024:	-3.3%
Annual Openings:	2

Industry	2014 Share	2024 Share
5411 Legal Services	55.0%	48.9%
Self-Employed Workers	20.9%	22.7%
State Government, ex. Education and Hospitals	6.6%	8.0%
524 Insurance Carriers & Related Activities	n	n
551 Management of Companies and Enterprises	n	n
5614 Business Support Services	n	n

23-2099 Legal Support Workers, All Other



All legal support workers not listed separately *Examples: Brief Writer; Legislative Aide; Patent Examiner*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 28.54
2014 Estimated Employment:	122
2024 Projected Employment:	127
Growth Rate, 2014-2024:	4.1%
Annual Openings:	3

Industry	2014 Share	2024 Share
Federal Government, ex. Postal Service	27.9%	26.0%
State Government, ex. Education and Hospitals	22.1%	22.1%
Local Government, ex. Education	15.6%	15.8%
Self-Employed Workers	9.0%	9.5%
624 Social Assistance	8.2%	7.9%
5411 Legal Services	n	n

25-1011 Business Teachers, Postsecondary



Teach courses in business administration and management, such as accounting, finance, human resources, labor relations, marketing, and operations research. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research. *Examples: Accounting Professor, Finance Professor, Marketing Professor*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$115,018
2014 Estimated Employment:	360
2024 Projected Employment:	380
Growth Rate, 2014-2024:	5.6%
Annual Openings:	8

Industry	2014 Share	2024 Share
6113 Colleges and Universities	91.4%	91.8%
Self-Employed Workers	n	n
6112 Junior Colleges	n	n

25-1021 Computer Science Teachers, Postsecondary



Teach courses in computer science. May specialize in a field of computer science, such as the design and function of computers or operations and research analysis. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research. *Examples: Computer Information Systems Professor, Information Technology Professor*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$93,745
2014 Estimated Employment:	96
2024 Projected Employment:	102
Growth Rate, 2014-2024:	6.3%
Annual Openings:	3

Industry		2014 Share	2024 Share
6112	Junior Colleges	n	n
6113	Colleges and Universities	n	n

25-1022 Mathematical Science Teachers, Postsecondary



Teach courses pertaining to mathematical concepts, statistics, and actuarial science and to the application of original and standardized mathematical techniques in solving specific problems and situations. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research. *Examples: Calculus Professor, Statistics Professor*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$88,952
2014 Estimated Employment:	144
2024 Projected Employment:	161
Growth Rate, 2014-2024:	11.8%
Annual Openings:	4

Industry		2014 Share	2024 Share
6112	Junior Colleges	n	n
6113	Colleges and Universities	n	n

25-1032 Engineering Teachers, Postsecondary



Teach courses pertaining to the application of physical laws and principles of engineering for the development of machines, materials, instruments, processes, and services. Include teachers of subjects, such as chemical, civil, electrical, industrial, mechanical, mineral, and petroleum engineering. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research. Exclude Computer Science Teachers, Postsecondary (25-1021). *Examples: Civil Engineering Professor, Electrical Engineering Professor*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$116,398
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
6112	Junior Colleges	n	n
6113	Colleges and Universities	n	n

25-1041 Agricultural Sciences Teachers, Postsecondary



Teach courses in the agricultural sciences. Include teachers of agronomy, dairy sciences, fisheries management, horticultural sciences, poultry sciences, range management, and agricultural soil conservation. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research. *Example: Farm Management Professor*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
6113	Colleges and Universities	n	n

25-1042 Biological Science Teachers, Postsecondary



Teach courses in biological sciences. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research. *Examples: Biochemistry Professor, Botany Professor*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$107,382
2014 Estimated Employment:	253
2024 Projected Employment:	282
Growth Rate, 2014-2024:	11.5%
Annual Openings:	7

Industry	2014 Share	2024 Share
6112 Junior Colleges	n	n
6113 Colleges and Universities	n	n

25-1051 Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary



Teach courses in the physical sciences, except chemistry and physics. Include both teachers primarily engaged in teaching, and those who do a combination of both teaching and research. *Examples: Climatology Professor, Geology Professor, Oceanography Professor*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$78,878
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
6113 Colleges and Universities	n	n

25-1052 Chemistry Teachers, Postsecondary



Teach courses pertaining to the chemical and physical properties and compositional changes of substances. Work may include instruction in the methods of qualitative and quantitative chemical analysis. Include both teachers primarily engaged in teaching, and those who do a combination of both teaching and research. Exclude Biological Science Teachers, Postsecondary (25-1042) who teach biochemistry. *Example: Organic Chemistry Professor*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$91,474
2014 Estimated Employment:	90
2024 Projected Employment:	100
Growth Rate, 2014-2024:	11.1%
Annual Openings:	3

Industry	2014 Share	2024 Share
6112 Junior Colleges	n	n
6113 Colleges and Universities	n	n

25-1053 Environmental Science Teachers, Postsecondary



Teach courses in environmental science. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research. *Example: Environmental Studies Professor*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$80,477
2014 Estimated Employment:	105
2024 Projected Employment:	110
Growth Rate, 2014-2024:	4.8%
Annual Openings:	2

Industry	2014 Share	2024 Share
6112 Junior Colleges	n	n
6113 Colleges and Universities	n	n

25-1054 Physics Teachers, Postsecondary



Teach courses pertaining to the laws of matter and energy. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research. *Example: Astrophysics Professor*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$113,518
2014 Estimated Employment:	76
2024 Projected Employment:	84
Growth Rate, 2014-2024:	10.5%
Annual Openings:	2

Industry	2014 Share	2024 Share
6112 Junior Colleges	n	n
6113 Colleges and Universities	n	n

25-1061 Anthropology and Archeology Teachers, Postsecondary



Teach courses in anthropology or archeology. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
6113 Colleges and Universities	n	n

25-1062 Area, Ethnic, and Cultural Studies Teachers, Postsecondary



Teach courses pertaining to the culture and development of an area (e.g., Latin America), an ethnic group, or any other group (e.g., womens studies, urban affairs). Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research. *Example: Women's Studies Professor*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	36
2024 Projected Employment:	40
Growth Rate, 2014-2024:	11.1%
Annual Openings:	1

Industry	2014 Share	2024 Share
6113 Colleges and Universities	100.0%	100.0%

25-1063 Economics Teachers, Postsecondary



Teach courses in economics. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$126,365
2014 Estimated Employment:	102
2024 Projected Employment:	109
Growth Rate, 2014-2024:	6.9%
Annual Openings:	3

Industry	2014 Share	2024 Share
6112 Junior Colleges	n	n
6113 Colleges and Universities	n	n

25-1064 Geography Teachers, Postsecondary



Teach courses in geography. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
6113 Colleges and Universities	n	n

25-1065 Political Science Teachers, Postsecondary



Teach courses in political science, international affairs, and international relations. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$98,933
2014 Estimated Employment:	64
2024 Projected Employment:	67
Growth Rate, 2014-2024:	4.7%
Annual Openings:	1

Industry	2014 Share	2024 Share
6113 Colleges and Universities	100.0%	100.0%

25-1066 Psychology Teachers, Postsecondary



Teach courses in psychology, such as child, clinical, and developmental psychology, and psychological counseling. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$83,659
2014 Estimated Employment:	210
2024 Projected Employment:	234
Growth Rate, 2014-2024:	11.4%
Annual Openings:	6

Industry	2014 Share	2024 Share
6112 Junior Colleges	n	n
6113 Colleges and Universities	n	n

25-1067 Sociology Teachers, Postsecondary



Teach courses in sociology. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$94,218
2014 Estimated Employment:	55
2024 Projected Employment:	61
Growth Rate, 2014-2024:	10.9%
Annual Openings:	2

Industry	2014 Share	2024 Share
6113 Colleges and Universities	100.0%	100.0%

25-1069 Social Sciences Teachers, Postsecondary, All Other



All postsecondary social sciences teachers not listed separately. *Example: Urban Plannin Professor*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$81,758
2014 Estimated Employment:	62
2024 Projected Employment:	70
Growth Rate, 2014-2024:	12.9%
Annual Openings:	2

Industry	2014 Share	2024 Share
6112 Junior Colleges	n	n
6113 Colleges and Universities	n	n

25-1071 Health Specialties Teachers, Postsecondary



Teach courses in health specialties, such as veterinary medicine, dentistry, pharmacy, therapy, laboratory technology, and public health. *Example: Pharmacology Professor*

Training Category: Doctorate/Prof | <5 years | none

2015 Average Wage:	\$121,235
2014 Estimated Employment:	536
2024 Projected Employment:	620
Growth Rate, 2014-2024:	15.7%
Annual Openings:	18

Industry	2014 Share	2024 Share
6113 Colleges and Universities	84.3%	84.5%
Self-Employed Workers	n	n
6112 Junior Colleges	n	n
6115 Technical and Trade Schools	n	n
6116 Other Schools and Instruction	n	n

25-1072 Nursing Instructors and Teachers, Postsecondary



Demonstrate and teach patient care in classroom and clinical units to nursing students. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research. *Examples: Advanced Nursing Professor; Clinical Nursing Professor; Registered Nursing Professor*

Training Category: Masters | < 5 yrs | none

2015 Average Wage:	\$74,263
2014 Estimated Employment:	189
2024 Projected Employment:	217
Growth Rate, 2014-2024:	14.8%
Annual Openings:	6

Industry	2014 Share	2024 Share
6113 Colleges and Universities	51.9%	52.5%
6112 Junior Colleges	n	n
6115 Technical and Trade Schools	n	n
622 Hospitals	n	n

25-1081 Education Teachers, Postsecondary



Teach courses pertaining to education, such as counseling, curriculum, guidance, instruction, teacher education, and teaching English as a second language. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

Training Category: Doctorate/Prof | <5 years | none

2015 Average Wage:	\$70,467
2014 Estimated Employment:	228
2024 Projected Employment:	241
Growth Rate, 2014-2024:	5.7%
Annual Openings:	5

Industry	2014 Share	2024 Share
6112 Junior Colleges	n	n
6113 Colleges and Universities	n	n

25-1111 Criminal Justice and Law Enforcement Teachers, Postsecondary



Teach courses in criminal justice, corrections, and law enforcement administration. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$68,737
2014 Estimated Employment:	26
2024 Projected Employment:	30
Growth Rate, 2014-2024:	15.4%
Annual Openings:	0

Industry	2014 Share	2024 Share
6112 Junior Colleges	n	n
6113 Colleges and Universities	n	n

25-1112 Law Teachers, Postsecondary



Teach courses in law. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
6112 Junior Colleges	n	n
6113 Colleges and Universities	n	n

25-1113 Social Work Teachers, Postsecondary



Teach courses in social work. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
6112 Junior Colleges	n	n
6113 Colleges and Universities	n	n

25-1121 Art, Drama, and Music Teachers, Postsecondary



Teach courses in drama, music, and the arts including fine and applied art, such as painting and sculpture, or design and crafts. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

Training Category: Masters | none | none

2015 Average Wage:	\$87,197
2014 Estimated Employment:	422
2024 Projected Employment:	454
Growth Rate, 2014-2024:	7.6%
Annual Openings:	11

Industry	2014 Share	2024 Share
6113 Colleges and Universities	92.2%	91.4%
6116 Other Schools and Instruction Self-Employed Workers	5.2%	6.0%
6112 Junior Colleges	n	n

25-1122 Communications Teachers, Postsecondary



Teach courses in communications, such as organizational communications, public relations, radio/television broadcasting, and journalism. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$76,087
2014 Estimated Employment:	72
2024 Projected Employment:	76
Growth Rate, 2014-2024:	5.6%
Annual Openings:	1

Industry	2014 Share	2024 Share
6113 Colleges and Universities	100.0%	100.0%

25-1123 English Language and Literature Teachers, Postsecondary



Teach courses in English language and literature, including linguistics and comparative literature. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research. *Example: Creative Writing Professor*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$78,490
2014 Estimated Employment:	304
2024 Projected Employment:	322
Growth Rate, 2014-2024:	5.9%
Annual Openings:	7

Industry	2014 Share	2024 Share
6112 Junior Colleges	n	n
6113 Colleges and Universities	n	n

25-1124 Foreign Language and Literature Teachers, Postsecondary



Teach courses in foreign (i.e., other than English) languages and literature. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
6112 Junior Colleges	n	n
6113 Colleges and Universities	n	n

25-1125 History Teachers, Postsecondary



Teach courses in human history and historiography. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$85,322
2014 Estimated Employment:	109
2024 Projected Employment:	116
Growth Rate, 2014-2024:	6.4%
Annual Openings:	3

Industry	2014 Share	2024 Share
6112 Junior Colleges	n	n
6113 Colleges and Universities	n	n

25-1126 Philosophy and Religion Teachers, Postsecondary



Philosophy and Religion Teachers, Postsecondary

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$90,017
2014 Estimated Employment:	101
2024 Projected Employment:	110
Growth Rate, 2014-2024:	8.9%
Annual Openings:	3

Industry	2014 Share	2024 Share
6113 Colleges and Universities	100.0%	100.0%

25-1192 Home Economics Teachers, Postsecondary



Teach courses in child care, family relations, finance, nutrition, and related subjects as pertaining to home management. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research. *Example: Family and Consumer Sciences Professor*

Training Category: Masters | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
6113 Colleges and Universities	n	n

25-1193 Recreation and Fitness Studies Teachers, Postsecondary



Teach courses pertaining to recreation, leisure, and fitness studies, including exercise physiology and facilities management. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$73,419
2014 Estimated Employment:	59
2024 Projected Employment:	62
Growth Rate, 2014-2024:	5.1%
Annual Openings:	1

Industry	2014 Share	2024 Share
6112 Junior Colleges	n	n
6113 Colleges and Universities	n	n

25-1194 Vocational Education Teachers, Postsecondary



Teach or instruct vocational or occupational subjects at the postsecondary level (but at less than the baccalaureate) to students who have graduated or left high school. *Examples: Cosmetology Instructor; Mechanical Maintenance Instructor*

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	\$ 28.73
2014 Estimated Employment:	263
2024 Projected Employment:	287
Growth Rate, 2014-2024:	9.1%
Annual Openings:	7

Industry	2014 Share	2024 Share
6115 Technical and Trade Schools	33.8%	35.2%
6113 Colleges and Universities	16.0%	16.4%
813 Membership Organizations & Associations	6.5%	5.9%
State Government, ex. Education and Hospitals	4.6%	4.9%
Self-Employed Workers	n	n
6112 Junior Colleges	n	n

25-1199 Postsecondary Teachers, All Other



All postsecondary teachers not listed separately.

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$71,864
2014 Estimated Employment:	905
2024 Projected Employment:	959
Growth Rate, 2014-2024:	6.0%
Annual Openings:	21

Industry	2014 Share	2024 Share
6113 Colleges and Universities	91.1%	91.1%
Self-Employed Workers	n	n
6112 Junior Colleges	n	n

25-2011 Preschool Teachers, Except Special Education



Instruct children (normally up to 5 years of age) in activities designed to promote social, physical, and intellectual growth needed for primary school in preschool, day care center, or other child development facility. May be required to hold State certification.

Training Category: Associate | none | none

2015 Average Wage:	\$ 14.16
2014 Estimated Employment:	2,854
2024 Projected Employment:	3,001
Growth Rate, 2014-2024:	5.2%
Annual Openings:	99

Industry	2014 Share	2024 Share
624 Social Assistance	76.0%	75.7%
813 Membership Organizations & Associations	8.6%	8.6%
6111 Elementary and Secondary Schools	5.4%	5.3%
622 Hospitals	3.5%	3.5%
Local Government, ex. Education	1.4%	1.4%
6113 Colleges and Universities	n	n

25-2012 Kindergarten Teachers, Except Special Education



Teach elemental natural and social science, personal hygiene, music, art, and literature to children from 4 to 6 years old. Promote physical, mental, and social development. May be required to hold State certification.

Training Category: Bachelor | none | Intern / Res

2015 Average Wage:	\$49,526
2014 Estimated Employment:	551
2024 Projected Employment:	573
Growth Rate, 2014-2024:	4.0%
Annual Openings:	18

Industry	2014 Share	2024 Share
6111 Elementary and Secondary Schools	74.1%	73.7%
624 Social Assistance	24.9%	25.1%
Self-Employed Workers	0.4%	0.4%
6113 Colleges and Universities	n	n
622 Hospitals	n	n

25-2021 Elementary School Teachers, Except Special Education



Teach pupils in public or private schools at the elementary level basic academic, social, and other formative skills.

Training Category: Bachelor | none | Intern / Res

2015 Average Wage:	\$55,646
2014 Estimated Employment:	6,049
2024 Projected Employment:	6,245
Growth Rate, 2014-2024:	3.2%
Annual Openings:	154

Industry	2014 Share	2024 Share
6111 Elementary and Secondary Schools	100.0%	100.0%

25-2022 Middle School Teachers, Except Special and Career/Technical Education



Teach students in public or private schools in one or more subjects at the middle, intermediate, or junior high level, which falls between elementary and senior high school as defined by applicable State laws and regulations.

Training Category: Bachelor | none | Intern / Res

2015 Average Wage:	\$57,732
2014 Estimated Employment:	3,491
2024 Projected Employment:	3,605
Growth Rate, 2014-2024:	3.3%
Annual Openings:	88

Industry	2014 Share	2024 Share
6111 Elementary and Secondary Schools	100.0%	100.0%

25-2023 Career/Technical Education Teachers, Middle School



Teach or instruct vocational or occupational subjects at the middle school level.

Training Category: Bachelor | < 5 yrs | Intern / Res

2015 Average Wage:	\$61,601
2014 Estimated Employment:	59
2024 Projected Employment:	61
Growth Rate, 2014-2024:	3.4%
Annual Openings:	1

Industry	2014 Share	2024 Share
6111 Elementary and Secondary Schools	100.0%	100.0%

25-2031 Secondary School Teachers, Except Special and Career/Technical Education



Instruct students in secondary public or private schools in one or more subjects at the secondary level, such as English, mathematics, or social studies. May be designated according to subject matter specialty, such as typing instructors, commercial teachers, or English teachers.

Training Category: Bachelor | none | Intern / Res

2015 Average Wage:	\$56,845
2014 Estimated Employment:	4,981
2024 Projected Employment:	5,142
Growth Rate, 2014-2024:	3.2%
Annual Openings:	134

Industry	2014 Share	2024 Share
6111 Elementary and Secondary Schools	100.0%	100.0%

25-2032 Career/Technical Education Teachers, Secondary School



Teach or instruct vocational or occupational subjects at the secondary school level.

Training Category: Bachelor | < 5 yrs | Intern / Res

2015 Average Wage:	\$57,842
2014 Estimated Employment:	398
2024 Projected Employment:	390
Growth Rate, 2014-2024:	-2.0%
Annual Openings:	9

Industry	2014 Share	2024 Share
6111 Elementary and Secondary Schools	100.0%	100.0%

25-2051 Special Education Teachers, Preschool



Teach preschool school subjects to educationally and physically handicapped students. Includes teachers who specialize and work with audibly and visually handicapped students and those who teach basic academic and life processes skills to the mentally impaired. *Examples: Early Childhood Special Education Teacher; Pre-Kindergarten Special Education Teacher*

Training Category: Bachelor | none | Intern / Res

2015 Average Wage:	\$48,916
2014 Estimated Employment:	52
2024 Projected Employment:	55
Growth Rate, 2014-2024:	5.8%
Annual Openings:	1

Industry		2014 Share	2024 Share
6111	Elementary and Secondary Schools	63.5%	61.8%
624	Social Assistance	36.5%	38.2%

25-2052 Special Education Teachers, Kindergarten and Elementary School



Teach elementary school subjects to educationally and physically handicapped students. Includes teachers who specialize and work with audibly and visually handicapped students and those who teach basic academic and life processes skills to the mentally impaired. *Examples: Severe Emotional Disorders Elementary School Teacher; Special Education Kindergarten Teacher*

Training Category: Bachelor | none | Intern / Res

2015 Average Wage:	\$56,092
2014 Estimated Employment:	1,146
2024 Projected Employment:	1,190
Growth Rate, 2014-2024:	3.8%
Annual Openings:	26

Industry		2014 Share	2024 Share
6111	Elementary and Secondary Schools	96.0%	95.3%
623	Nursing and Residential Care Facilities	3.7%	4.4%
	Self-Employed Workers	n	n
551	Management of Companies and Enterprises	n	n

25-2053 Special Education Teachers, Middle School



Teach middle school subjects to educationally and physically handicapped students. Includes teachers who specialize and work with audibly and visually handicapped students and those who teach basic academic and life processes skills to the mentally impaired.

Training Category: Bachelor | none | Intern / Res

2015 Average Wage:	\$55,780
2014 Estimated Employment:	594
2024 Projected Employment:	613
Growth Rate, 2014-2024:	3.2%
Annual Openings:	13

Industry		2014 Share	2024 Share
6111	Elementary and Secondary Schools	99.8%	99.8%
	Self-Employed Workers	0.2%	0.2%

25-2054 Special Education Teachers, Secondary School



Teach secondary school subjects to educationally and physically handicapped students. Includes teachers who specialize and work with audibly and visually handicapped students and those who teach basic academic and life processes skills to the mentally impaired.

Training Category: Bachelor | none | Intern / Res

2015 Average Wage:	\$57,546
2014 Estimated Employment:	562
2024 Projected Employment:	579
Growth Rate, 2014-2024:	3.0%
Annual Openings:	13

Industry		2014 Share	2024 Share
6111	Elementary and Secondary Schools	100.0%	100.0%

25-2059 Special Education Teachers, All Other



All special education teachers not listed separately. *Examples: Autism Tutor; Special Education Teacher for Adults with Disabilities*

Training Category: Bachelor | none | Intern / Res

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
6111 Elementary and Secondary Schools	n	n
623 Nursing and Residential Care Facilities	n	n
624 Social Assistance	n	n
Federal Government, ex. Postal Service	n	n

25-3011 Adult Basic and Secondary Education and Literacy Teachers and Instructors



Teach or instruct out-of-school youths and adults in remedial education classes, preparatory classes for the General Educational Development test, literacy, or English as a Second Language. Teaching may or may not take place in a traditional educational institution. *Example: Adult Literacy Instructor*

Training Category: Bachelor | none | Intern / Res

2015 Average Wage:	\$ 25.73
2014 Estimated Employment:	152
2024 Projected Employment:	160
Growth Rate, 2014-2024:	5.3%
Annual Openings:	4

Industry	2014 Share	2024 Share
6111 Elementary and Secondary Schools	53.3%	51.9%
624 Social Assistance	25.7%	24.4%
Self-Employed Workers	7.9%	8.1%
6117 Educational Support Services	n	n

25-3021 Self-Enrichment Education Teachers



Teach or instruct courses other than those that normally lead to an occupational objective or degree. Courses may include self-improvement, non-vocational, and non-academic subjects. Teaching may or may not take place in a traditional educational institution. *Examples: Citizenship Teacher, Horseback Riding Instructor*

Training Category: High School | < 5 yrs | none

2015 Average Wage:	\$ 20.72
2014 Estimated Employment:	1,585
2024 Projected Employment:	1,894
Growth Rate, 2014-2024:	19.5%
Annual Openings:	61

Industry	2014 Share	2024 Share
6116 Other Schools and Instruction	39.6%	43.7%
Self-Employed Workers	19.7%	17.6%
813 Membership Organizations & Associations	15.8%	15.3%
6111 Elementary and Secondary Schools	3.4%	3.0%
451 Sporting Goods/Hobby/Book/Music Stores	n	n
713 Amusement, Gambling & Recreation Ind	n	n

25-3097 Teachers and Instructors, All Other, Except Substitute Teachers



All teachers and instructors not listed separately.

Training Category: Bachelor | none | Intern / Res

2015 Average Wage:	\$42,996
2014 Estimated Employment:	2,065
2024 Projected Employment:	2,227
Growth Rate, 2014-2024:	7.9%
Annual Openings:	55

Industry	2014 Share	2024 Share
6111 Elementary and Secondary Schools	34.9%	33.3%
6116 Other Schools and Instruction	14.6%	16.2%
6113 Colleges and Universities	12.4%	12.1%
Self-Employed Workers	7.7%	7.6%
623 Nursing and Residential Care Facilities	4.8%	5.4%
622 Hospitals	n	n

25-3098 Substitute Teachers



Teach students in a public or private school when the regular teacher is unavailable.

Training Category: Bachelor | none | Intern / Res

2015 Average Wage:	\$ 11.08
2014 Estimated Employment:	2,798
2024 Projected Employment:	2,895
Growth Rate, 2014-2024:	3.5%
Annual Openings:	63

Industry	2014 Share	2024 Share
6111 Elementary and Secondary Schools	91.2%	90.9%
Self-Employed Workers	7.7%	7.9%
624 Social Assistance	0.6%	0.6%
623 Nursing and Residential Care Facilities	0.5%	0.6%

25-4011 Archivists



Appraise, edit, and direct safekeeping of permanent records and historically valuable documents. Participate in research activities based on archival materials.

Training Category: Masters | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
6113 Colleges and Universities	n	n
712 Museums, Parks and Historical Sites	n	n
6111 Elementary and Secondary Schools	n	n
Local Government, ex. Education	n	n
Self-Employed Workers	n	n

25-4012 Curators



Administer affairs of museum and conduct research programs. Direct instructional, research, and public service activities of institution. *Examples: Art Gallery Director; Museum Director*

Training Category: Masters | none | none

2015 Average Wage:	\$ 19.66
2014 Estimated Employment:	76
2024 Projected Employment:	80
Growth Rate, 2014-2024:	5.3%
Annual Openings:	2

Industry	2014 Share	2024 Share
712 Museums, Parks and Historical Sites	61.8%	61.3%
6113 Colleges and Universities	21.1%	21.3%
Self-Employed Workers	7.9%	7.5%
519 Other Information Services	n	n
6111 Elementary and Secondary Schools	n	n
Federal Government, ex. Postal Service	n	n

25-4013 Museum Technicians and Conservators



Prepare specimens, such as fossils, skeletal parts, lace, and textiles, for museum collection and exhibits. May restore documents or install, arrange, and exhibit materials. *Example: Museum Registrar*

Training Category: Bachelor | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
6113 Colleges and Universities	n	n
712 Museums, Parks and Historical Sites	n	n
Federal Government, ex. Postal Service	n	n

25-4021 Librarians



Administer libraries and perform related library services. Work in a variety of settings, including public libraries, schools, colleges and universities, museums, corporations, government agencies, law firms, non-profit organizations, and healthcare providers. Tasks may include selecting, acquiring, cataloguing, classifying, circulating, and maintaining library materials; and furnishing reference, bibliographical, and readers' advisory services. *Examples: School Library Media Specialist; Circulation Manager*

Training Category: Masters | none | none

2015 Average Wage:	\$ 26.47
2014 Estimated Employment:	1,014
2024 Projected Employment:	1,019
Growth Rate, 2014-2024:	0.5%
Annual Openings:	19

Industry	2014 Share	2024 Share
Local Government, ex. Education	36.9%	38.9%
6111 Elementary and Secondary Schools	32.4%	29.9%
6113 Colleges and Universities	15.1%	15.9%
424 Merchant Wholesalers, Nondurable Goods	6.0%	5.7%
519 Other Information Services	3.7%	3.2%
6112 Junior Colleges	n	n

25-4031 Library Technicians



Assist librarians by helping readers in the use of library catalogs, databases, and indexes to locate books and other materials; and by answering questions that require only brief consultation of standard reference. Compile records; sort and shelve books; remove or repair damaged books; register patrons; check materials in and out of the circulation process. Replace materials in shelving area (stacks) or files.

Training Category: Postsecondary | none | none

2015 Average Wage:	\$ 16.90
2014 Estimated Employment:	650
2024 Projected Employment:	683
Growth Rate, 2014-2024:	5.1%
Annual Openings:	34

Industry	2014 Share	2024 Share
Local Government, ex. Education	55.9%	56.2%
6113 Colleges and Universities	25.2%	25.3%
6111 Elementary and Secondary Schools	11.7%	11.0%
519 Other Information Services	2.3%	2.1%
State Government, ex. Education and Hospitals	0.9%	1.0%
6112 Junior Colleges	n	n

25-9011 Audio-Visual and Multimedia Collections Specialists



Prepare, plan, and operate audio-visual teaching aids for use in education. May record, catalogue, and file audio-visual materials.

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	\$ 28.87
2014 Estimated Employment:	28
2024 Projected Employment:	29
Growth Rate, 2014-2024:	3.6%
Annual Openings:	0

Industry	2014 Share	2024 Share
6111 Elementary and Secondary Schools	60.7%	62.1%
6113 Colleges and Universities	17.9%	17.2%
551 Management of Companies and Enterprises	n	n
6112 Junior Colleges	n	n
622 Hospitals	n	n

25-9031 Instructional Coordinators



Develop instructional material, coordinate educational content, and incorporate current technology in specialized fields that provide guidelines to educators and instructors for developing curricula and conducting courses. Include educational consultants and specialists, and instructional material directors. *Examples: Curriculum Specialist; Educational Consultant*

Training Category: Masters | 5+ years | none

2015 Average Wage:	\$ 32.67
2014 Estimated Employment:	581
2024 Projected Employment:	622
Growth Rate, 2014-2024:	7.1%
Annual Openings:	10

Industry	2014 Share	2024 Share
6111 Elementary and Secondary Schools	34.4%	33.0%
6113 Colleges and Universities	22.2%	22.0%
State Government, ex. Education and Hospitals	5.0%	5.0%
Self-Employed Workers	4.5%	4.7%
6114 Business, Computer & Management Training	n	n
6117 Educational Support Services	n	n

25-9041 Teacher Assistants



Perform duties that are instructional in nature or deliver direct services to students or parents. Serve in a position for which a teacher or another professional has ultimate responsibility for the design and implementation of educational programs and services. *Examples: Director of Instructional Materials; Educational Consultant*

Training Category: Some College | none | none

2015 Average Wage:	\$28,808
2014 Estimated Employment:	11,802
2024 Projected Employment:	12,320
Growth Rate, 2014-2024:	4.4%
Annual Openings:	335

Industry	2014 Share	2024 Share
6111 Elementary and Secondary Schools	64.2%	63.5%
813 Membership Organizations & Associations	30.2%	30.3%
623 Nursing and Residential Care Facilities	2.0%	2.4%
624 Social Assistance	1.7%	1.8%
6116 Other Schools and Instruction	n	n
6117 Educational Support Services	n	n

25-9099 Education, Training, and Library Workers, All Other



All education, training, and library workers not listed separately.

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 24.81
2014 Estimated Employment:	645
2024 Projected Employment:	686
Growth Rate, 2014-2024:	6.4%
Annual Openings:	10

Industry	2014 Share	2024 Share
6113 Colleges and Universities	38.5%	37.8%
Self-Employed Workers	3.3%	3.6%
6111 Elementary and Secondary Schools	n	n
6112 Junior Colleges	n	n
6116 Other Schools and Instruction	n	n
622 Hospitals	n	n

27-1011 Art Directors



Formulate design concepts and presentation approaches, and direct workers engaged in art work, layout design, and copy writing for visual communications media, such as magazines, books, newspapers, and packaging.

Training Category: Bachelor | 5+ years | none

2015 Average Wage:	\$ 22.61
2014 Estimated Employment:	176
2024 Projected Employment:	180
Growth Rate, 2014-2024:	2.3%
Annual Openings:	3

Industry	2014 Share	2024 Share
Self-Employed Workers	51.7%	51.1%
511 Publishing Industries	15.9%	12.8%
5415 Computer Systems Design and Rel Services	n	n
5416 Management & Technical Consulting Svc	n	n
5418 Advertising and Related Services	n	n
551 Management of Companies and Enterprises	n	n

27-1012 Craft Artists



Create or reproduce hand-made objects for sale and exhibition using a variety of techniques. *Examples: Hand Potter, Quilter*

Training Category: none | none | Long OJT

2015 Average Wage:	\$ 38.01
2014 Estimated Employment:	77
2024 Projected Employment:	76
Growth Rate, 2014-2024:	-1.3%
Annual Openings:	1

Industry	2014 Share	2024 Share
Self-Employed Workers	53.3%	54.0%
442 Furniture and Home Furnishings Stores	20.8%	23.7%
453 Miscellaneous Store Retailers	10.4%	9.2%
327 Nonmetallic Mineral Product Mfg	n	n
5414 Specialized Design Services	n	n
6113 Colleges and Universities	n	n

27-1013 Fine Artists, Including Painters, Sculptors, and Illustrators



Create original artwork using any of a wide variety of mediums and techniques, such as painting and sculpture.

Training Category: Bachelor | none | Long OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
511 Publishing Industries	n	n
512 Motion Picture & Sound Recording Ind	n	n
5414 Specialized Design Services	n	n

27-1014 Multimedia Artists and Animators



Create special effects, animation, or other visual images using film, video, computers, or other electronic tools and media for use in products or creations, such as computer games, movies, music videos, and commercials. *Examples: Computer Artist; Computer Graphics Illustrator; Special Effects Specialist*

Training Category: Bachelor | none | Moderate OJT

2015 Average Wage:	\$ 28.76
2014 Estimated Employment:	111
2024 Projected Employment:	120
Growth Rate, 2014-2024:	8.1%
Annual Openings:	3

Industry	2014 Share	2024 Share
Self-Employed Workers	52.3%	49.2%
5415 Computer Systems Design and Rel Services	14.4%	15.8%
5418 Advertising and Related Services	7.2%	7.5%
511 Publishing Industries	6.3%	6.7%
512 Motion Picture & Sound Recording Ind	n	n
5414 Specialized Design Services	n	n

27-1019 Artists and Related Workers, All Other



All artists and related workers not listed separately. *Examples: Art Appraiser; Calligrapher; Inker and Opaquer*

Training Category: none | none | Long OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	32
2024 Projected Employment:	32
Growth Rate, 2014-2024:	0.0%
Annual Openings:	1

Industry	2014 Share	2024 Share
Federal Government, ex. Postal Service	37.5%	34.4%
Self-Employed Workers	37.5%	37.5%
311 Food Manufacturing	n	n
451 Sporting Goods/Hobby/Book/Music Stores	n	n
551 Management of Companies and Enterprises	n	n
6113 Colleges and Universities	n	n

27-1021 Commercial and Industrial Designers



Develop and design manufactured products, such as cars, home appliances, and children's toys. Combine artistic talent with research on product use, marketing, and materials to create the most functional and appealing product design. *Examples: Body Stylist; Color Consultant; Jewelry Designer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 35.31
2014 Estimated Employment:	110
2024 Projected Employment:	111
Growth Rate, 2014-2024:	0.9%
Annual Openings:	3

Industry	2014 Share	2024 Share
Self-Employed Workers	20.9%	20.7%
326 Plastics & Rubber Products Manufacturing	n	n
337 Furniture and Related Product Mfg	n	n
339 Miscellaneous Manufacturing	n	n
5413 Architectural and Engineering Services	n	n
551 Management of Companies and Enterprises	n	n

27-1022 Fashion Designers



Design clothing and accessories. Create original garments or design garments that follow well established fashion trends. May develop the line of color and kinds of materials. *Examples: Costume Designer; Custom Furrier; Stylist*

Training Category: Bachelor | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	107
2024 Projected Employment:	118
Growth Rate, 2014-2024:	10.3%
Annual Openings:	3

Industry	2014 Share	2024 Share
Self-Employed Workers	21.5%	20.3%
316 Leather and Allied Product Manufacturing	n	n
424 Merchant Wholesalers, Nondurable Goods	n	n
454 Nonstore Retailers	n	n
5414 Specialized Design Services	n	n
551 Management of Companies and Enterprises	n	n

27-1023 Floral Designers



Design, cut, and arrange live, dried, or artificial flowers and foliage. *Examples: Corsage Maker; Flower Arranger*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 12.72
2014 Estimated Employment:	246
2024 Projected Employment:	236
Growth Rate, 2014-2024:	-4.1%
Annual Openings:	6

Industry	2014 Share	2024 Share
453 Miscellaneous Store Retailers	58.9%	55.1%
Self-Employed Workers	21.1%	22.9%
445 Food and Beverage Stores	10.2%	11.4%
444 Building Material & Garden Supply Stores	n	n
451 Sporting Goods/Hobby/Book/Music Stores	n	n

27-1024 Graphic Designers



Design or create graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. May use a variety of mediums to achieve artistic or decorative effects. *Examples: Catalogue Illustrator; Layout Artist*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 21.86
2014 Estimated Employment:	1,061
2024 Projected Employment:	1,078
Growth Rate, 2014-2024:	1.6%
Annual Openings:	27

Industry	2014 Share	2024 Share
Self-Employed Workers	20.1%	20.4%
511 Publishing Industries	12.4%	8.1%
323 Printing and Related Support Activities	10.8%	10.1%
5415 Computer Systems Design and Rel Services	7.1%	8.3%
551 Management of Companies and Enterprises	5.6%	5.8%
5414 Specialized Design Services	5.2%	6.3%

27-1025 Interior Designers



Plan, design, and furnish interiors of residential, commercial, or industrial buildings. Formulate design which is practical, aesthetic, and conducive to intended purposes, such as raising productivity, selling merchandise, or improving life style. May specialize in a particular field, style, or phase of interior design. *Examples: Decorator; Furniture Arranger; Home Lighting Adviser*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 23.33
2014 Estimated Employment:	214
2024 Projected Employment:	224
Growth Rate, 2014-2024:	4.7%
Annual Openings:	6

Industry	2014 Share	2024 Share
444 Building Material & Garden Supply Stores	29.9%	29.5%
Self-Employed Workers	20.6%	20.5%
236 Construction of Buildings	n	n
442 Furniture and Home Furnishings Stores	n	n
5413 Architectural and Engineering Services	n	n
5414 Specialized Design Services	n	n

27-1026 Merchandise Displayers and Window Trimmers



Plan and erect commercial displays, such as those in windows and interiors of retail stores and at trade exhibitions. *Examples: Mannequin Decorator; Display Artist; Model Dresser*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 13.28
2014 Estimated Employment:	942
2024 Projected Employment:	965
Growth Rate, 2014-2024:	2.4%
Annual Openings:	24

Industry	2014 Share	2024 Share
424 Merchant Wholesalers, Nondurable Goods	64.0%	66.0%
Self-Employed Workers	21.2%	21.5%
452 General Merchandise Stores	6.5%	5.2%
448 Clothing and Clothing Accessories Stores	5.7%	5.0%
453 Miscellaneous Store Retailers	n	n
5418 Advertising and Related Services	n	n

27-1027 Set and Exhibit Designers



Design special exhibits and movie, television, and theater sets. May study scripts, confer with directors, and conduct research to determine appropriate architectural styles. *Examples: Set Decorator; Set Designer*

Training Category: Bachelor | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	38
2024 Projected Employment:	40
Growth Rate, 2014-2024:	5.3%
Annual Openings:	1

Industry	2014 Share	2024 Share
711 Performing Arts and Spectator Sports	55.3%	57.5%
Self-Employed Workers	21.1%	20.0%
423 Merchant Wholesalers, Durable Goods	n	n
5416 Management & Technical Consulting Svc	n	n
6113 Colleges and Universities	n	n
712 Museums, Parks and Historical Sites	n	n

27-1029 Designers, All Other



All designers not listed separately. *Examples: Copyist; Frame Stylist*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 36.82
2014 Estimated Employment:	71
2024 Projected Employment:	78
Growth Rate, 2014-2024:	9.9%
Annual Openings:	3

Industry	2014 Share	2024 Share
Self-Employed Workers	21.1%	19.2%
334 Computer and Electronic Product Mfg	n	n
451 Sporting Goods/Hobby/Book/Music Stores	n	n
5415 Computer Systems Design and Rel Services	n	n
5419 Other Professional & Technical Services	n	n
551 Management of Companies and Enterprises	n	n

27-2011 Actors



Play parts in stage, television, radio, video, or motion picture productions for entertainment, information, or instruction. Interpret serious or comic role by speech, gesture, and body movement to entertain or inform audience. May dance and sing. *Examples: Elocutionist; Extra; Dramatic Reader*

Training Category: Some College | none | Long OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	44
2024 Projected Employment:	47
Growth Rate, 2014-2024:	6.8%
Annual Openings:	2

Industry	2014 Share	2024 Share
Self-Employed Workers	15.9%	17.0%
512 Motion Picture & Sound Recording Ind	n	n
622 Hospitals	n	n
713 Amusement, Gambling & Recreation Ind	n	n

27-2012 Producers and Directors



Produce or direct stage, television, radio, video, or motion picture productions for entertainment, information, or instruction. Responsible for creative decisions, such as interpretation of script, choice of guests, set design, sound, special effects, and choreography. *Examples: Independent Film Maker; Program Arranger*

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	\$ 27.20
2014 Estimated Employment:	218
2024 Projected Employment:	241
Growth Rate, 2014-2024:	10.6%
Annual Openings:	9

Industry	2014 Share	2024 Share
711 Performing Arts and Spectator Sports	27.1%	26.1%
515 Broadcasting (except Internet)	23.4%	24.5%
Self-Employed Workers	18.8%	17.4%
512 Motion Picture & Sound Recording Ind	n	n
6113 Colleges and Universities	n	n
Local Government, ex. Education	n	n

27-2021 Athletes and Sports Competitors



Compete in athletic events. *Examples: Ball Player; Jockey; Racing Car Driver*

Training Category: none | none | Long OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	24
2024 Projected Employment:	25
Growth Rate, 2014-2024:	4.2%
Annual Openings:	1

Industry	2014 Share	2024 Share
Self-Employed Workers	12.5%	12.0%
551 Management of Companies and Enterprises	n	n
713 Amusement, Gambling & Recreation Ind	n	n

27-2022 Coaches and Scouts



Instruct or coach groups or individuals in the fundamentals of sports. Demonstrate techniques and methods of participation. May evaluate athletes' strengths and weaknesses as possible recruits or to improve the athletes' technique to prepare them for competition. *Examples: Boxing Trainer; Horse Trainer; Baseball Club Manager*

Training Category: Bachelor | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	1,456
2024 Projected Employment:	1,547
Growth Rate, 2014-2024:	6.3%
Annual Openings:	58

Industry	2014 Share	2024 Share
6113 Colleges and Universities	30.0%	28.5%
713 Amusement, Gambling & Recreation Ind	28.0%	29.6%
6111 Elementary and Secondary Schools	16.2%	14.6%
6116 Other Schools and Instruction	13.9%	15.6%
Self-Employed Workers	7.6%	7.6%
813 Membership Organizations & Associations	4.0%	3.9%

27-2023 Umpires, Referees, and Other Sports Officials



Officiate at competitive athletic or sporting events. Detect infractions of rules and decide penalties according to established regulations. Include all sporting officials, referees, and competition judges.

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
6111 Elementary and Secondary Schools	n	n
713 Amusement, Gambling & Recreation Ind	n	n

27-2031 Dancers



Perform dances. May also sing or act.

Training Category: none | none | Long OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
711 Performing Arts and Spectator Sports	n	n

27-2032 Choreographers



Create and teach dance. May direct and stage presentations.

Training Category: High School | 5+ years | Long OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
6116 Other Schools and Instruction	n	n

27-2041 Music Directors and Composers



Conduct, direct, plan, and lead instrumental or vocal performances by musical groups, such as orchestras, choirs, and glee clubs. Include arrangers, composers, choral directors, and orchestrators. *Examples: Choirmaster; Orchestra Conductor*

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	\$ 27.07
2014 Estimated Employment:	596
2024 Projected Employment:	621
Growth Rate, 2014-2024:	4.2%
Annual Openings:	19

Industry	2014 Share	2024 Share
813 Membership Organizations & Associations	64.4%	64.9%
Self-Employed Workers	24.3%	24.2%
6111 Elementary and Secondary Schools	8.4%	7.9%
6113 Colleges and Universities	n	n
6116 Other Schools and Instruction	n	n

27-2042 Musicians and Singers



Play one or more musical instruments or entertain by singing songs in recital, in accompaniment, or as a member of an orchestra, band, or other musical group. Musical performers may entertain on-stage, radio, TV, film, video, or record in studios. *Examples: Cantor; Church Organist; Instrumentalist*

Training Category: none | none | Long OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	19
2024 Projected Employment:	21
Growth Rate, 2014-2024:	10.5%
Annual Openings:	1

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
6116 Other Schools and Instruction	n	n
711 Performing Arts and Spectator Sports	n	n

27-2099 Entertainers and Performers, Sports and Related Workers, All Other



All entertainers and performers, sports and related workers not listed separately. *Examples: Clown; Comedian; Magician*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 13.42
2014 Estimated Employment:	139
2024 Projected Employment:	145
Growth Rate, 2014-2024:	4.3%
Annual Openings:	5

Industry	2014 Share	2024 Share
Self-Employed Workers	45.3%	45.5%
6113 Colleges and Universities	38.9%	38.6%
5412 Accounting and Bookkeeping Services	n	n
5416 Management & Technical Consulting Svc	n	n
711 Performing Arts and Spectator Sports	n	n

27-3011 Radio and Television Announcers



Talk on radio and television. May interview guests, act as master of ceremonies, read news flashes, identify station by giving call letters, or announce song title and artist. *Broadcaster; Radio Disk Jockey*

Training Category: Bachelor | none | Short OJT

2015 Average Wage:	\$ 15.26
2014 Estimated Employment:	121
2024 Projected Employment:	111
Growth Rate, 2014-2024:	-8.3%
Annual Openings:	4

Industry	2014 Share	2024 Share
515 Broadcasting (except Internet)	71.9%	68.5%
Self-Employed Workers	25.6%	28.8%
6113 Colleges and Universities	n	n
813 Membership Organizations & Associations	n	n

27-3012 Public Address System and Other Announcers



Make announcements over loud speaker at sporting or other public events. May act as master of ceremonies or disc jockey at weddings, parties, clubs, or other gathering places.

Training Category: High School | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
711 Performing Arts and Spectator Sports	n	n

27-3021 Broadcast News Analysts



Analyze, interpret, and broadcast news received from various sources.

Training Category: Bachelor | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
515 Broadcasting (except Internet)	n	n
5419 Other Professional & Technical Services	n	n

27-3022 Reporters and Correspondents



Collect and analyze facts about newsworthy events by interview, investigation, or observation. Report and write stories for newspaper, news magazine, radio, or television.

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 17.60
2014 Estimated Employment:	336
2024 Projected Employment:	294
Growth Rate, 2014-2024:	-12.5%
Annual Openings:	11

Industry		2014 Share	2024 Share
511	Publishing Industries	63.1%	51.0%
	Self-Employed Workers	13.4%	15.0%
515	Broadcasting (except Internet)	n	n
519	Other Information Services	n	n

27-3031 Public Relations Specialists



Engage in promoting or creating good will for individuals, groups, or organizations by writing or selecting favorable publicity material and releasing it through various communications media. May prepare and arrange displays, and make speeches. *Example: Lobbyist; Press Secretary*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 30.74
2014 Estimated Employment:	983
2024 Projected Employment:	1,075
Growth Rate, 2014-2024:	9.4%
Annual Openings:	21

Industry		2014 Share	2024 Share
5418	Advertising and Related Services	18.0%	18.2%
6113	Colleges and Universities	16.4%	15.8%
5416	Management & Technical Consulting Svc	4.9%	6.0%
551	Management of Companies and Enterprises	4.4%	4.3%
5611	Office Administrative Services	n	n
813	Membership Organizations & Associations	n	n

27-3041 Editors



Perform variety of editorial duties, such as laying out, indexing, and revising content of written materials, in preparation for final publication. Include technical editors. *Example: Copy Editor*

Training Category: Bachelor | < 5 yrs | none

2015 Average Wage:	\$ 23.29
2014 Estimated Employment:	408
2024 Projected Employment:	370
Growth Rate, 2014-2024:	-9.3%
Annual Openings:	15

Industry		2014 Share	2024 Share
511	Publishing Industries	55.2%	45.7%
	Self-Employed Workers	12.3%	14.1%
515	Broadcasting (except Internet)	n	n
519	Other Information Services	n	n
6113	Colleges and Universities	n	n
6117	Educational Support Services	n	n

27-3042 Technical Writers



Write technical materials, such as equipment manuals, appendices, or operating and maintenance instructions. May assist in layout work. *Examples: Documentation Writer; Assembly Instructions Writer; Specifications Writer*

Training Category: Bachelor | < 5 yrs | Short OJT

2015 Average Wage:	\$ 38.72
2014 Estimated Employment:	261
2024 Projected Employment:	280
Growth Rate, 2014-2024:	7.3%
Annual Openings:	8

Industry		2014 Share	2024 Share
334	Computer and Electronic Product Mfg	23.8%	21.1%
5415	Computer Systems Design and Rel Services	21.1%	23.6%
511	Publishing Industries	13.0%	12.5%
325	Chemical Manufacturing	10.3%	11.4%
5413	Architectural and Engineering Services	6.1%	6.4%
	Self-Employed Workers	5.0%	4.6%

27-3043 Writers and Authors



Originate and prepare written material, such as scripts, stories, advertisements, and other material. *Examples: Crossword Puzzle Maker; Copy Writer; Playwright*

Training Category: Bachelor | none | Moderate OJT

2015 Average Wage:	\$ 26.08
2014 Estimated Employment:	753
2024 Projected Employment:	797
Growth Rate, 2014-2024:	5.8%
Annual Openings:	17

Industry	2014 Share	2024 Share
Self-Employed Workers	63.0%	61.1%
515 Broadcasting (except Internet)	5.8%	6.0%
6113 Colleges and Universities	4.1%	4.3%
5416 Management & Technical Consulting Svc	3.5%	4.4%
453 Miscellaneous Store Retailers	n	n
6117 Educational Support Services	n	n

27-3091 Interpreters and Translators



Translate or interpret written, oral, or sign language text into another language for others. *Examples: Braille Translator; Deaf Interpreter; Language Translator*

Training Category: Bachelor | none | Short OJT

2015 Average Wage:	\$ 22.30
2014 Estimated Employment:	258
2024 Projected Employment:	330
Growth Rate, 2014-2024:	27.9%
Annual Openings:	11

Industry	2014 Share	2024 Share
624 Social Assistance	54.3%	53.9%
Self-Employed Workers	15.5%	13.6%
621 Ambulatory Health Care Services	14.3%	17.9%
6111 Elementary and Secondary Schools	9.7%	7.6%
5419 Other Professional & Technical Services	n	n
622 Hospitals	n	n

27-3099 Media and Communication Workers, All Other



All media and communication workers not listed separately. *Examples: Graphologist; Stage Technician*

Training Category: High School | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	106
2024 Projected Employment:	115
Growth Rate, 2014-2024:	8.5%
Annual Openings:	3

Industry	2014 Share	2024 Share
Self-Employed Workers	21.7%	21.7%
515 Broadcasting (except Internet)	18.9%	19.1%
5419 Other Professional & Technical Services	17.0%	15.7%
334 Computer and Electronic Product Mfg	13.2%	11.3%
512 Motion Picture & Sound Recording Ind	n	n
6113 Colleges and Universities	n	n

27-4011 Audio and Video Equipment Technicians



Set up or set up and operate audio and video equipment including microphones, sound speakers, video screens, projectors, video monitors, recording equipment, connecting wires and cables, sound and mixing boards, and related electronic equipment for concerts, sports events, meetings and conventions, presentations, and news conferences. May also set up and operate associated spotlights and other custom lighting systems. *Examples: Video Control Operator; Audio Visual Production Specialist*

Training Category: Postsecondary | none | Short OJT

2015 Average Wage:	\$ 19.99
2014 Estimated Employment:	76
2024 Projected Employment:	84
Growth Rate, 2014-2024:	10.5%
Annual Openings:	2

Industry	2014 Share	2024 Share
6113 Colleges and Universities	25.0%	25.0%
711 Performing Arts and Spectator Sports	13.2%	13.1%
Self-Employed Workers	7.9%	7.1%
515 Broadcasting (except Internet)	7.9%	9.5%
6111 Elementary and Secondary Schools	7.9%	7.1%
423 Merchant Wholesalers, Durable Goods	n	n

27-4012 Broadcast Technicians



Set up, operate, and maintain the electronic equipment used to transmit radio and television programs. Control audio equipment to regulate volume level and quality of sound during radio and television broadcasts. Operate radio transmitter to broadcast radio and television programs. *Example: Audio Engineer*

Training Category: Associate | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	137
2024 Projected Employment:	150
Growth Rate, 2014-2024:	9.5%
Annual Openings:	4

Industry	2014 Share	2024 Share
515 Broadcasting (except Internet)	43.8%	40.7%
512 Motion Picture & Sound Recording Ind	40.9%	45.3%
Self-Employed Workers	8.0%	7.3%
517 Telecommunications	n	n
6113 Colleges and Universities	n	n
711 Performing Arts and Spectator Sports	n	n

27-4014 Sound Engineering Technicians



Operate machines and equipment to record, synchronize, mix, or reproduce music, voices, sound effects in sporting arenas, theater productions, recording studios, or movie and video productions. *Examples: Audio Recording Engineer; Sound Editor; Sound Effects Person*

Training Category: Postsecondary | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
512 Motion Picture & Sound Recording Ind	n	n
711 Performing Arts and Spectator Sports	n	n

27-4021 Photographers



Photograph persons, subjects, merchandise, or other commercial products. May develop negatives and produce finished prints. Include scientific photographers, aerial photographers, and photojournalists. *Example: Camera Operator*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 15.34
2014 Estimated Employment:	521
2024 Projected Employment:	529
Growth Rate, 2014-2024:	1.5%
Annual Openings:	14

Industry	2014 Share	2024 Share
Self-Employed Workers	57.8%	62.8%
5419 Other Professional & Technical Services	32.4%	28.7%
511 Publishing Industries	5.4%	3.2%
454 Nonstore Retailers	n	n
515 Broadcasting (except Internet)	n	n
6113 Colleges and Universities	n	n

27-4031 Camera Operators, Television, Video, and Motion Picture



Operate television, video, or motion picture camera to photograph images or scenes for various purposes, such as TV broadcasts, advertising, video production, or motion pictures. *Example: Cinematographer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 17.86
2014 Estimated Employment:	113
2024 Projected Employment:	120
Growth Rate, 2014-2024:	6.2%
Annual Openings:	2

Industry	2014 Share	2024 Share
515 Broadcasting (except Internet)	41.6%	44.2%
Self-Employed Workers	25.7%	25.0%
Local Government, ex. Education	21.2%	20.0%
512 Motion Picture & Sound Recording Ind	8.0%	8.3%
511 Publishing Industries	n	n
6113 Colleges and Universities	n	n

27-4032 Film and Video Editors



Edit motion picture soundtracks, film, and video. *Examples: Cue Selector; Video Tape Duplicator*

Training Category: Bachelor | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	27
2024 Projected Employment:	34
Growth Rate, 2014-2024:	25.9%
Annual Openings:	1

Industry	2014 Share	2024 Share
512 Motion Picture & Sound Recording Ind	40.7%	44.1%
Self-Employed Workers	25.9%	23.5%
515 Broadcasting (except Internet)	n	n
517 Telecommunications	n	n
6114 Business, Computer & Management Training	n	n
622 Hospitals	n	n

27-4099 Media and Communication Equipment Workers, All Other



All media and communication equipment workers not listed separately. *Examples: Radar Operator; Light Technician*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 20.27
2014 Estimated Employment:	141
2024 Projected Employment:	133
Growth Rate, 2014-2024:	-5.7%
Annual Openings:	3

Industry	2014 Share	2024 Share
6113 Colleges and Universities	41.8%	40.6%
Local Government, ex. Education	23.4%	23.3%
Self-Employed Workers	5.7%	6.8%
515 Broadcasting (except Internet)	n	n
5419 Other Professional & Technical Services	n	n
711 Performing Arts and Spectator Sports	n	n

29-1011 Chiropractors



Adjust spinal column and other articulations of the body to correct abnormalities of the human body believed to be caused by interference with the nervous system. Examine patient to determine nature and extent of disorder. Manipulate spine or other involved area. May utilize supplementary measures, such as exercise, rest, water, light, heat, and nutritional therapy.

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$ 47.13
2014 Estimated Employment:	122
2024 Projected Employment:	140
Growth Rate, 2014-2024:	14.8%
Annual Openings:	4

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	66.4%	66.4%
Self-Employed Workers	31.2%	31.4%
622 Hospitals	2.5%	2.1%

29-1021 Dentists, General



Diagnose and treat diseases, injuries, and malformations of teeth and gums and related oral structures. May treat diseases of nerve, pulp, and other dental tissues affecting vitality of teeth.

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$ 104.71
2014 Estimated Employment:	545
2024 Projected Employment:	628
Growth Rate, 2014-2024:	15.2%
Annual Openings:	19

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	77.3%	77.4%
Self-Employed Workers	21.1%	21.2%
339 Miscellaneous Manufacturing	n	n
551 Management of Companies and Enterprises	n	n
622 Hospitals	n	n
State Government, ex. Education and Hospitals	n	n

29-1022 Oral and Maxillofacial Surgeons



Perform surgery on mouth, jaws, and related head and neck structure to execute difficult and multiple extractions of teeth, to remove tumors and other abnormal growths, to correct abnormal jaw relations by mandibular or maxillary revision, to prepare mouth for insertion of dental prosthesis, or to treat fractured jaws.

Training Category: Doctorate/Prof | none | Intern /Res

2015 Average Wage:	\$ 138.63
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
	Self-Employed Workers	n	n
621	Ambulatory Health Care Services	n	n

29-1023 Orthodontists



Examine, diagnose, and treat dental malocclusions and oral cavity anomalies. Design and fabricate appliances to realign teeth and jaws to produce and maintain normal function and to improve appearance.

Training Category: Doctorate/Prof | none | Intern /Res

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
	Self-Employed Workers	n	n
621	Ambulatory Health Care Services	n	n

29-1024 Prosthodontists



Construct oral prostheses to replace missing teeth and other oral structures to correct natural and acquired deformation of mouth and jaws, to restore and maintain oral function, such as chewing and speaking, and to improve appearance.

Training Category: Doctorate/Prof | none | Intern /Res

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
	Self-Employed Workers	n	n
621	Ambulatory Health Care Services	n	n

29-1029 Dentists, All Other Specialists



All dentists not listed separately.

Training Category: Doctorate/Prof | none | Intern /Res

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
	Self-Employed Workers	n	n
	Federal Government, ex. Postal Service	n	n

29-1031 Dietitians and Nutritionists



Plan and conduct food service or nutritional programs to assist in the promotion of health and control of disease. May supervise activities of a department providing quantity food services, counsel individuals, or conduct nutritional research. *Examples: Public Health Dietitian; Nutrition Director; Research Dietitian*

Training Category: Bachelor | none | Intern / Res

2015 Average Wage:	\$ 30.93
2014 Estimated Employment:	245
2024 Projected Employment:	287
Growth Rate, 2014-2024:	17.1%
Annual Openings:	6

Industry	2014 Share	2024 Share
622 Hospitals	46.9%	42.2%
621 Ambulatory Health Care Services	22.9%	27.9%
623 Nursing and Residential Care Facilities	9.8%	9.8%
Self-Employed Workers	5.7%	6.6%
624 Social Assistance	4.1%	3.8%
551 Management of Companies and Enterprises	n	n

29-1041 Optometrists



Diagnose, manage, and treat conditions and diseases of the human eye and visual system. Examine eyes and visual system, diagnose problems or impairments, prescribe corrective lenses, and provide treatment. May prescribe therapeutic drugs to treat specific eye conditions. *Example: Doctor of Optometry*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$ 55.14
2014 Estimated Employment:	160
2024 Projected Employment:	201
Growth Rate, 2014-2024:	25.6%
Annual Openings:	10

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	81.9%	81.6%
Self-Employed Workers	15.0%	15.9%
446 Health and Personal Care Stores	n	n
Federal Government, ex. Postal Service	n	n

29-1051 Pharmacists



Dispense drugs prescribed by physicians and other health practitioners and provide information to patients about medications and their use. May advise physicians and other health practitioners on the selection, dosage, interactions, and side effects of medications. *Examples: Apothecary; Druggist; Industrial Pharmacist*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$ 61.77
2014 Estimated Employment:	1,089
2024 Projected Employment:	1,132
Growth Rate, 2014-2024:	4.0%
Annual Openings:	29

Industry	2014 Share	2024 Share
446 Health and Personal Care Stores	43.7%	41.7%
622 Hospitals	24.2%	24.4%
452 General Merchandise Stores	12.1%	12.3%
445 Food and Beverage Stores	6.8%	7.1%
551 Management of Companies and Enterprises	4.6%	4.7%
621 Ambulatory Health Care Services	2.9%	3.8%

29-1061 Anesthesiologists



Administer anesthetics during surgery or other medical procedures.

Training Category: Doctorate/Prof | none | Intern /Res

2015 Average Wage:	\$ 131.99
2014 Estimated Employment:	94
2024 Projected Employment:	112
Growth Rate, 2014-2024:	19.2%
Annual Openings:	4

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	90.4%	90.2%
Self-Employed Workers	n	n
622 Hospitals	n	n

29-1062 Family and General Practitioners



Diagnose, treat, and help prevent diseases and injuries that commonly occur in the general population.

Training Category: Doctorate/Prof | none | Intern /Res

2015 Average Wage:	\$ 102.90
2014 Estimated Employment:	622
2024 Projected Employment:	684
Growth Rate, 2014-2024:	10.0%
Annual Openings:	23

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	88.6%	88.0%
Self-Employed Workers	8.4%	9.1%
622 Hospitals	2.1%	1.8%
5613 Employment Services	n	n
624 Social Assistance	n	n
Local Government, ex. Education	n	n

29-1063 Internists, General



Diagnose and provide non-surgical treatment of diseases and injuries of internal organ systems. Provide care mainly for adults who have a wide range of problems associated with the internal organs. Include subspecialists, such as cardiologists and gastroenterologists, with All Other Physicians (29-1069).

Training Category: Doctorate/Prof | none | Intern /Res

2015 Average Wage:	\$ 107.46
2014 Estimated Employment:	137
2024 Projected Employment:	144
Growth Rate, 2014-2024:	5.1%
Annual Openings:	5

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	63.5%	65.3%
622 Hospitals	27.7%	25.0%
Self-Employed Workers	8.8%	9.7%

29-1064 Obstetricians and Gynecologists



Diagnose, treat, and help prevent diseases of women, especially those affecting the reproductive system and the process of childbirth.

Training Category: Doctorate/Prof | none | Intern /Res

2015 Average Wage:	\$ 125.11
2014 Estimated Employment:	117
2024 Projected Employment:	136
Growth Rate, 2014-2024:	16.2%
Annual Openings:	5

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	89.7%	89.7%
Self-Employed Workers	n	n
622 Hospitals	n	n

29-1065 Pediatricians, General



Diagnose, treat, and help prevent childrens diseases and injuries.

Training Category: Doctorate/Prof | none | Intern /Res

2015 Average Wage:	\$ 90.88
2014 Estimated Employment:	156
2024 Projected Employment:	166
Growth Rate, 2014-2024:	6.4%
Annual Openings:	5

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	79.5%	80.1%
622 Hospitals	11.5%	10.2%
Self-Employed Workers	9.0%	9.6%

29-1066 Psychiatrists



Diagnose, treat, and help prevent disorders of the mind.

Training Category: Doctorate/Prof | none | Intern /Res

2015 Average Wage:	\$ 102.58
2014 Estimated Employment:	85
2024 Projected Employment:	102
Growth Rate, 2014-2024:	20.0%
Annual Openings:	4

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	81.2%	83.3%
Self-Employed Workers	7.1%	6.9%
6113 Colleges and Universities	n	n
622 Hospitals	n	n
624 Social Assistance	n	n

29-1067 Surgeons



Treat diseases, injuries, and deformities by invasive methods, such as manual manipulation or by using instruments and appliances.

Training Category: Doctorate/Prof | none | Intern /Res

2015 Average Wage:	\$ 131.76
2014 Estimated Employment:	257
2024 Projected Employment:	303
Growth Rate, 2014-2024:	17.9%
Annual Openings:	12

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	84.8%	85.8%
Self-Employed Workers	n	n
622 Hospitals	n	n

29-1069 Physicians and Surgeons, All Other



All physicians and surgeons not listed separately.

Training Category: Doctorate/Prof | none | Intern /Res

2015 Average Wage:	\$ 117.65
2014 Estimated Employment:	1,964
2024 Projected Employment:	2,299
Growth Rate, 2014-2024:	17.1%
Annual Openings:	87

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	66.7%	69.1%
622 Hospitals	20.1%	18.0%
Self-Employed Workers	7.5%	7.6%
5613 Employment Services	2.9%	2.9%
Federal Government, ex. Postal Service	2.5%	2.1%
5611 Office Administrative Services	n	n

29-1071 Physician Assistants



Provide healthcare services typically performed by a physician, under the supervision of a physician. Conduct complete physicals, provide treatment, and counsel patients. May, in some cases, prescribe medication. Must graduate from an accredited educational program for physician assistants.
Example: Anesthesiologist Assistant

Training Category: Masters | none | none

2015 Average Wage:	\$ 54.36
2014 Estimated Employment:	538
2024 Projected Employment:	705
Growth Rate, 2014-2024:	31.0%
Annual Openings:	29

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	85.7%	87.5%
622 Hospitals	11.3%	9.9%
Self-Employed Workers	1.1%	1.1%
Federal Government, ex. Postal Service	0.7%	0.6%
6113 Colleges and Universities	n	n
State Government, ex. Education and Hospitals	n	n

29-1081 Podiatrists



Diagnose and treat diseases and deformities of the human foot. *Examples: Podiatric Surgeon; Foot Orthopedist; Pododermatologist*

Training Category: Doctorate/Prof | none | Intern /Res

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
	Self-Employed Workers	n	n
621	Ambulatory Health Care Services	n	n
	Federal Government, ex. Postal Service	n	n

29-1122 Occupational Therapists



Assess, plan, organize, and participate in rehabilitative programs that help restore vocational, homemaking, and daily living skills, as well as general independence, to disabled persons.

Training Category: Masters | none | none

2015 Average Wage:	\$ 37.39
2014 Estimated Employment:	815
2024 Projected Employment:	989
Growth Rate, 2014-2024:	21.4%
Annual Openings:	33

Industry		2014 Share	2024 Share
622	Hospitals	30.3%	27.0%
621	Ambulatory Health Care Services	29.6%	35.5%
623	Nursing and Residential Care Facilities	18.3%	16.8%
6111	Elementary and Secondary Schools	14.2%	13.4%
	Self-Employed Workers	1.8%	2.3%
551	Management of Companies and Enterprises	n	n

29-1123 Physical Therapists



Assess, plan, organize, and participate in rehabilitative programs that improve mobility, relieve pain, increase strength, and decrease or prevent deformity of patients suffering from disease or injury. *Examples: Physiotherapist; Pulmonary Physical Therapist*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$ 38.95
2014 Estimated Employment:	1,453
2024 Projected Employment:	1,905
Growth Rate, 2014-2024:	31.1%
Annual Openings:	84

Industry		2014 Share	2024 Share
621	Ambulatory Health Care Services	54.8%	61.8%
622	Hospitals	29.2%	23.8%
623	Nursing and Residential Care Facilities	10.1%	8.6%
	Self-Employed Workers	3.2%	3.6%
551	Management of Companies and Enterprises	n	n
6111	Elementary and Secondary Schools	n	n

29-1124 Radiation Therapists



Provide radiation therapy to patients as prescribed by a radiologist according to established practices and standards. Duties may include reviewing prescription and diagnosis; acting as liaison with physician and supportive care personnel; preparing equipment, such as immobilization, treatment, and protection devices; and maintaining records, reports, and files. May assist in dosimetry procedures and tumor localization. *Examples: Dosimetrist; Radiation Therapy Technologist*

Training Category: Associate | none | none

2015 Average Wage:	\$ 39.64
2014 Estimated Employment:	116
2024 Projected Employment:	125
Growth Rate, 2014-2024:	7.8%
Annual Openings:	4

Industry		2014 Share	2024 Share
622	Hospitals	87.1%	84.8%
621	Ambulatory Health Care Services	12.9%	15.2%

29-1125 Recreational Therapists



Plan, direct, or coordinate medically-approved recreation programs for patients in hospitals, nursing homes, or other institutions. Activities include sports, trips, dramatics, social activities, and arts and crafts. May assess a patient condition and recommend appropriate recreational activity.
Example: Therapeutic Recreation Specialist

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 22.29
2014 Estimated Employment:	74
2024 Projected Employment:	81
Growth Rate, 2014-2024:	9.5%
Annual Openings:	3

Industry	2014 Share	2024 Share
622 Hospitals	51.4%	48.2%
623 Nursing and Residential Care Facilities	27.0%	30.9%
State Government, ex. Education and Hospitals	9.5%	9.9%
Federal Government, ex. Postal Service	2.7%	2.5%
551 Management of Companies and Enterprises	n	n
6113 Colleges and Universities	n	n

29-1126 Respiratory Therapists



Assess, treat, and care for patients with breathing disorders. Assume primary responsibility for all respiratory care modalities, including the supervision of respiratory therapy technicians. Initiate and conduct therapeutic procedures; maintain patient records; and select, assemble, check, and operate equipment. *Examples: Inhalation Therapist; Respiratory Care Practitioner; Oxygen Therapist*

Training Category: Associate | none | none

2015 Average Wage:	\$ 29.96
2014 Estimated Employment:	372
2024 Projected Employment:	412
Growth Rate, 2014-2024:	10.8%
Annual Openings:	13

Industry	2014 Share	2024 Share
622 Hospitals	74.5%	71.1%
532 Rental and Leasing Services	12.6%	11.4%
621 Ambulatory Health Care Services	11.3%	15.8%
623 Nursing and Residential Care Facilities	n	n

29-1127 Speech-Language Pathologists



Assess and treat persons with speech, language, voice, and fluency disorders. May select alternative communication systems and teach their use. May perform research related to speech and language problems. *Examples: Oral Therapist; Speech Clinician*

Training Category: Masters | none | none

2015 Average Wage:	\$ 34.90
2014 Estimated Employment:	580
2024 Projected Employment:	647
Growth Rate, 2014-2024:	11.6%
Annual Openings:	22

Industry	2014 Share	2024 Share
6111 Elementary and Secondary Schools	53.1%	49.2%
622 Hospitals	13.6%	13.3%
623 Nursing and Residential Care Facilities	11.0%	11.8%
621 Ambulatory Health Care Services	9.0%	12.1%
Self-Employed Workers	5.5%	6.7%
624 Social Assistance	2.9%	2.8%

29-1128 Exercise Physiologists



Assess, plan, or implement fitness programs that include exercise or physical activities such as those designed to improve cardiorespiratory function, body composition, muscular strength, muscular endurance, or flexibility. *Examples: Applied Exercise Physiologist; Clinical Exercise Physiologist*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 22.20
2014 Estimated Employment:	112
2024 Projected Employment:	120
Growth Rate, 2014-2024:	7.1%
Annual Openings:	2

Industry	2014 Share	2024 Share
Self-Employed Workers	49.1%	53.3%
622 Hospitals	34.8%	28.3%
621 Ambulatory Health Care Services	8.0%	10.0%
624 Social Assistance	6.3%	5.8%
623 Nursing and Residential Care Facilities	1.8%	2.5%

29-1129 Therapists, All Other



All therapists not listed separately. *Examples: Hydrotherapist; Music Therapist*

Training Category: Bachelor | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	25
2024 Projected Employment:	31
Growth Rate, 2014-2024:	24.0%
Annual Openings:	1

Industry		2014 Share	2024 Share
	Self-Employed Workers	48.0%	48.4%
621	Ambulatory Health Care Services	28.0%	32.3%
622	Hospitals	16.0%	12.9%
6111	Elementary and Secondary Schools	8.0%	6.5%

29-1131 Veterinarians



Diagnose and treat diseases and dysfunctions of animals. May engage in a particular function, such as research and development, consultation, administration, technical writing, sale or production of commercial products, or rendering of technical services to commercial firms or other organizations. *Examples: Animal Pathologist; Animal Surgeon; Veterinary Bacteriologist*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	\$ 46.87
2014 Estimated Employment:	372
2024 Projected Employment:	409
Growth Rate, 2014-2024:	10.0%
Annual Openings:	10

Industry		2014 Share	2024 Share
5419	Other Professional & Technical Services	81.5%	81.7%
	Self-Employed Workers	14.8%	14.9%
813	Membership Organizations & Associations	1.3%	1.2%
112	Animal Production	0.8%	0.7%
6113	Colleges and Universities	n	n
812	Personal and Laundry Services	n	n

29-1141 Registered Nurses



Assess patient health problems and needs, develop and implement nursing care plans, and maintain medical records. Administer nursing care to ill, injured, convalescent, or disabled patients. May advise patients on health maintenance and disease prevention or provide case management. Licensing required. *Example: Nursing Supervisor, Nurse Practitioners*

Training Category: Associate | none | none

2015 Average Wage:	\$ 32.30
2014 Estimated Employment:	12,592
2024 Projected Employment:	14,528
Growth Rate, 2014-2024:	15.4%
Annual Openings:	491

Industry		2014 Share	2024 Share
622	Hospitals	57.5%	53.4%
621	Ambulatory Health Care Services	20.7%	25.0%
623	Nursing and Residential Care Facilities	8.6%	9.2%
6111	Elementary and Secondary Schools	3.6%	3.2%
	Local Government, ex. Education	2.8%	2.6%
	State Government, ex. Education and Hospitals	1.2%	1.1%

29-1151 Nurse Anesthetists



Administer anesthesia, monitor patient's vital signs, and oversee patient recovery from anesthesia. May assist anesthesiologists, surgeons, other physicians, or dentists. Must be registered nurses who have specialized graduate education. *Examples: Certified Registered Nurse Anesthetist (CRNA)*

Training Category: Masters | none | none

2015 Average Wage:	\$ 104.60
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
	Self-Employed Workers	n	n
621	Ambulatory Health Care Services	n	n
622	Hospitals	n	n
	Federal Government, ex. Postal Service	n	n

29-1161 Nurse Midwives



Diagnose and coordinate all aspects of the birthing process, either independently or as part of a healthcare team. May provide well-woman gynecological care.

Training Category: Masters | none | none

2015 Average Wage:	\$ 47.92
2014 Estimated Employment:	45
2024 Projected Employment:	56
Growth Rate, 2014-2024:	24.4%
Annual Openings:	2

Industry		2014 Share	2024 Share
621	Ambulatory Health Care Services	82.2%	83.9%
622	Hospitals	15.6%	14.3%
	Self-Employed Workers	2.2%	1.8%

29-1171 Nurse Practitioners



Diagnose and treat acute, episodic, or chronic illness, independently or as part of a healthcare team. May focus on health promotion and disease prevention. May order, perform, or interpret diagnostic tests such as lab work and x rays. May prescribe medication. *Examples: Cardiology Nurse Practitioner; Family Practice Nurse Practitioner; Gerontological Nurse Practitioner*

Training Category: Masters | none | none

2015 Average Wage:	\$ 51.06
2014 Estimated Employment:	770
2024 Projected Employment:	1,045
Growth Rate, 2014-2024:	35.7%
Annual Openings:	46

Industry		2014 Share	2024 Share
621	Ambulatory Health Care Services	79.4%	82.4%
622	Hospitals	11.0%	9.8%
6113	Colleges and Universities	3.6%	2.8%
	Self-Employed Workers	1.8%	1.9%
624	Social Assistance	1.6%	1.2%
6111	Elementary and Secondary Schools	1.2%	0.9%

29-1181 Audiologists



Assess and treat persons with hearing and related disorders. May fit hearing aids and provide auditory training. May perform research related to hearing problems. *Example: Hearing Therapist*

Training Category: Doctorate/Prof | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	79
2024 Projected Employment:	103
Growth Rate, 2014-2024:	30.4%
Annual Openings:	4

Industry		2014 Share	2024 Share
621	Ambulatory Health Care Services	65.8%	68.0%
446	Health and Personal Care Stores	22.8%	21.4%
	Self-Employed Workers	5.1%	5.8%
622	Hospitals	n	n
623	Nursing and Residential Care Facilities	n	n

29-1199 Health Diagnosing and Treating Practitioners, All Other



All health diagnosing and treating practitioners not listed separately. *Examples: Acupuncturist; Homeopathic Doctor; Hypnotherapist*

Training Category: Masters | none | none

2015 Average Wage:	\$ 30.69
2014 Estimated Employment:	234
2024 Projected Employment:	271
Growth Rate, 2014-2024:	15.8%
Annual Openings:	9

Industry		2014 Share	2024 Share
622	Hospitals	46.2%	42.1%
621	Ambulatory Health Care Services	26.5%	31.7%
	Self-Employed Workers	23.5%	23.3%
	Federal Government, ex. Postal Service	1.7%	1.1%
	Local Government, ex. Education	1.3%	1.1%
624	Social Assistance	n	n

29-2011 Medical and Clinical Laboratory Technologists



Perform complex medical laboratory tests for diagnosis, treatment, and prevention of disease. May train or supervise staff. *Examples: Blood Bank Technologist; Cytotechnologist; Immunohematologist*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 31.34
2014 Estimated Employment:	658
2024 Projected Employment:	699
Growth Rate, 2014-2024:	6.2%
Annual Openings:	20

Industry		2014 Share	2024 Share
622	Hospitals	86.8%	85.6%
621	Ambulatory Health Care Services	7.0%	8.4%
6113	Colleges and Universities	4.1%	4.0%
	Federal Government, ex. Postal Service	1.8%	1.6%
	Self-Employed Workers	n	n
5613	Employment Services	n	n

29-2012 Medical and Clinical Laboratory Technicians



Perform routine medical laboratory tests for the diagnosis, treatment, and prevention of disease. May work under the supervision of a medical technologist. *Examples: Blood Bank Technician; Cytotechnician; Serology Technician*

Training Category: Associate | none | none

2015 Average Wage:	\$ 19.74
2014 Estimated Employment:	480
2024 Projected Employment:	524
Growth Rate, 2014-2024:	9.2%
Annual Openings:	16

Industry		2014 Share	2024 Share
622	Hospitals	74.8%	71.8%
621	Ambulatory Health Care Services	10.0%	11.6%
5613	Employment Services	10.0%	11.5%
6113	Colleges and Universities	4.8%	4.8%
	Federal Government, ex. Postal Service	0.2%	0.2%
	Self-Employed Workers	0.2%	0.2%

29-2021 Dental Hygienists



Clean teeth and examine oral areas, head, and neck for signs of oral disease. May educate patients on oral hygiene, take and develop X-rays, or apply fluoride or sealants. *Example: Oral Hygienist*

Training Category: Associate | none | none

2015 Average Wage:	\$ 37.64
2014 Estimated Employment:	1,176
2024 Projected Employment:	1,347
Growth Rate, 2014-2024:	14.5%
Annual Openings:	36

Industry		2014 Share	2024 Share
621	Ambulatory Health Care Services	97.7%	97.9%
622	Hospitals	1.0%	1.0%
	Self-Employed Workers	0.8%	0.7%
	Federal Government, ex. Postal Service	0.3%	0.2%
551	Management of Companies and Enterprises	n	n
	Local Government, ex. Education	n	n

29-2031 Cardiovascular Technologists and Technicians



Conduct tests on pulmonary or cardiovascular systems of patients for diagnostic purposes. May conduct or assist in electrocardiograms, cardiac catheterizations, pulmonary-functions, lung capacity, and similar tests. Include vascular technologists. *Examples: Cardiographer; Cardiopulmonary Technologist*

Training Category: Associate | none | none

2015 Average Wage:	\$ 29.88
2014 Estimated Employment:	185
2024 Projected Employment:	218
Growth Rate, 2014-2024:	17.8%
Annual Openings:	7

Industry		2014 Share	2024 Share
622	Hospitals	83.8%	81.7%
621	Ambulatory Health Care Services	15.1%	17.4%
	Self-Employed Workers	1.1%	0.9%

29-2032 Diagnostic Medical Sonographers



Produce ultrasonic recordings of internal organs for use by physicians. *Example: Ultrasonic Tester*

Training Category: Associate | none | none

2015 Average Wage:	\$ 36.47
2014 Estimated Employment:	200
2024 Projected Employment:	237
Growth Rate, 2014-2024:	18.5%
Annual Openings:	8

Industry		2014 Share	2024 Share
622	Hospitals	82.0%	79.8%
621	Ambulatory Health Care Services	17.0%	19.4%
	Self-Employed Workers	1.0%	0.8%

29-2033 Nuclear Medicine Technologists



Prepare, administer, and measure radioactive isotopes in therapeutic, diagnostic, and tracer studies utilizing a variety of radioisotope equipment. Prepare stock solutions of radioactive materials and calculate doses to be administered by radiologists. Subject patients to radiation. Execute blood volume, red cell survival, and fat absorption studies following standard laboratory techniques. *Example: Radioisotope Technician*

Training Category: Associate | none | none

2015 Average Wage:	\$ 35.59
2014 Estimated Employment:	52
2024 Projected Employment:	51
Growth Rate, 2014-2024:	-1.9%
Annual Openings:	1

Industry		2014 Share	2024 Share
622	Hospitals	88.5%	86.3%
621	Ambulatory Health Care Services	11.5%	11.8%

29-2034 Radiologic Technologists



Take X-rays and CAT scans or administer non-radioactive materials into patient's blood stream for diagnostic purposes. Include technologists who specialize in other modalities, such as computed tomography and magnetic resonance. Include workers whose primary duties are to demonstrate portions of the human body on X-ray film or fluoroscopic screen. *Examples: CAT Scan Operator; Skiagrapher*

Training Category: Associate | none | none

2015 Average Wage:	\$ 30.04
2014 Estimated Employment:	773
2024 Projected Employment:	803
Growth Rate, 2014-2024:	3.9%
Annual Openings:	18

Industry		2014 Share	2024 Share
622	Hospitals	74.4%	71.1%
621	Ambulatory Health Care Services	22.0%	25.2%
	Federal Government, ex. Postal Service	1.3%	1.1%
5611	Office Administrative Services	0.8%	0.9%
6113	Colleges and Universities	0.8%	0.8%
	Self-Employed Workers	0.8%	1.0%

29-2035 Magnetic Resonance Imaging Technologists



Operate Magnetic Resonance Imaging (MRI) scanners. Monitor patient safety and comfort, and view images of area being scanned to ensure quality of pictures. May administer gadolinium contrast dosage intravenously. May interview patient, explain MRI procedures, and position patient on examining table. May enter into the computer data such as patient history, anatomical area to be scanned, orientation specified, and position of entry.

Examples: Computed Tomography/Magnetic Resonance Imaging Technologist; MRI Technologist

Training Category: Associate | < 5 yrs | none

2015 Average Wage:	\$ 33.89
2014 Estimated Employment:	111
2024 Projected Employment:	111
Growth Rate, 2014-2024:	0.0%
Annual Openings:	2

Industry		2014 Share	2024 Share
622	Hospitals	96.4%	95.5%
	Self-Employed Workers	0.9%	0.9%
6113	Colleges and Universities	n	n
621	Ambulatory Health Care Services	n	n

29-2041 Emergency Medical Technicians and Paramedics



Assess injuries, administer emergency medical care, and extricate trapped individuals. Transport injured or sick persons to medical facilities.
Example: E.M.T.

Training Category: Postsecondary | none | none

2015 Average Wage:	\$ 17.65
2014 Estimated Employment:	980
2024 Projected Employment:	1,205
Growth Rate, 2014-2024:	23.0%
Annual Openings:	38

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	55.9%	62.2%
Local Government, ex. Education	26.3%	22.7%
622 Hospitals	16.9%	14.3%
6115 Technical and Trade Schools	n	n
713 Amusement, Gambling & Recreation Ind	n	n

29-2051 Dietetic Technicians



Assist dietitians in the provision of food service and nutritional programs. Under the supervision of dietitians, may plan and produce meals based on established guidelines, teach principles of food and nutrition, or counsel individuals.

Training Category: Associate | none | none

2015 Average Wage:	\$ 16.40
2014 Estimated Employment:	122
2024 Projected Employment:	138
Growth Rate, 2014-2024:	13.1%
Annual Openings:	3

Industry	2014 Share	2024 Share
623 Nursing and Residential Care Facilities	50.8%	54.4%
622 Hospitals	48.4%	44.9%
State Government, ex. Education and Hospitals	0.8%	0.7%

29-2052 Pharmacy Technicians



Prepare medications under the direction of a pharmacist. May measure, mix, count out, label, and record amounts and dosages of medications.

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 14.46
2014 Estimated Employment:	1,362
2024 Projected Employment:	1,521
Growth Rate, 2014-2024:	11.7%
Annual Openings:	30

Industry	2014 Share	2024 Share
446 Health and Personal Care Stores	54.6%	53.4%
622 Hospitals	15.9%	14.9%
452 General Merchandise Stores	13.2%	14.3%
445 Food and Beverage Stores	10.5%	11.3%
621 Ambulatory Health Care Services	2.5%	3.0%
551 Management of Companies and Enterprises	n	n

29-2053 Psychiatric Technicians



Care for mentally impaired or emotionally disturbed individuals, following physician instructions and hospital procedures. Monitor patients' physical and emotional well-being and report to medical staff. May participate in rehabilitation and treatment programs, help with personal hygiene, and administer oral medications and hypodermic injections. *Example: Mental Health Technician*

Training Category: Postsecondary | < 5 yrs | Short OJT

2015 Average Wage:	\$ 16.17
2014 Estimated Employment:	41
2024 Projected Employment:	47
Growth Rate, 2014-2024:	14.6%
Annual Openings:	1

Industry	2014 Share	2024 Share
551 Management of Companies and Enterprises	n	n
622 Hospitals	n	n

29-2054 Respiratory Therapy Technicians



Provide specific, well defined respiratory care procedures under the direction of respiratory therapists and physicians.

Training Category: Associate | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
621	Ambulatory Health Care Services	n	n
622	Hospitals	n	n

29-2055 Surgical Technologists



Assist in operations, under the supervision of surgeons, registered nurses, or other surgical personnel. May help set up operating room, prepare and transport patients for surgery, adjust lights and equipment, pass instruments and other supplies to surgeons and surgeon's assistants, hold retractors, cut sutures, and help count sponges, needles, supplies, and instruments. *Examples: Operating Room Technician; Scrub Technician*

Training Category: Postsecondary | none | none

2015 Average Wage:	\$ 23.11
2014 Estimated Employment:	360
2024 Projected Employment:	406
Growth Rate, 2014-2024:	12.8%
Annual Openings:	9

Industry		2014 Share	2024 Share
622	Hospitals	67.8%	62.8%
621	Ambulatory Health Care Services	31.9%	37.0%
	Self-Employed Workers	0.3%	0.3%

29-2056 Veterinary Technologists and Technicians



Perform medical tests in a laboratory environment for use in the treatment and diagnosis of diseases in animals. Prepare vaccines and serums for prevention of diseases. Prepare tissue samples, take blood samples, and execute laboratory tests, such as urinalysis and blood counts. Clean and sterilize instruments and materials and maintain equipment and machines. *Examples: Animal Technician; Veterinary X-ray Operator*

Training Category: Associate | none | none

2015 Average Wage:	\$ 16.43
2014 Estimated Employment:	721
2024 Projected Employment:	872
Growth Rate, 2014-2024:	20.9%
Annual Openings:	22

Industry		2014 Share	2024 Share
5419	Other Professional & Technical Services	98.5%	98.6%
	State Government, ex. Education and Hospitals	0.4%	0.3%
	Self-Employed Workers	0.4%	0.3%
812	Personal and Laundry Services	n	n

29-2057 Ophthalmic Medical Technicians



Assist ophthalmologists by performing ophthalmic clinical functions. May administer eye exams, administer eye medications, and instruct the patient in care and use of corrective lenses.

Examples: Ocular Care Technologist; Ophthalmic Technologist

Training Category: Postsecondary | none | none

2015 Average Wage:	\$ 18.39
2014 Estimated Employment:	218
2024 Projected Employment:	263
Growth Rate, 2014-2024:	20.6%
Annual Openings:	6

Industry		2014 Share	2024 Share
621	Ambulatory Health Care Services	99.5%	99.6%
	Self-Employed Workers	0.5%	0.4%

29-2061 Licensed Practical and Licensed Vocational Nurses



Care for ill, injured, convalescent, or disabled persons in hospitals, nursing homes, clinics, private homes, group homes, and similar institutions. May work under the supervision of a registered nurse.

Training Category: Postsecondary | none | none

2015 Average Wage:	\$ 22.98
2014 Estimated Employment:	2,091
2024 Projected Employment:	2,454
Growth Rate, 2014-2024:	17.4%
Annual Openings:	96

Industry		2014 Share	2024 Share
623	Nursing and Residential Care Facilities	41.5%	41.2%
621	Ambulatory Health Care Services	27.2%	31.7%
	Local Government, ex. Education	12.2%	11.0%
622	Hospitals	9.7%	7.0%
	State Government, ex. Education and Hospitals	2.6%	2.3%
5613	Employment Services	2.4%	2.5%

29-2071 Medical Records and Health Information Technicians



Compile, process, and maintain medical records of hospital and clinic patients in a manner consistent with medical, administrative, ethical, legal, and regulatory requirements of the health care system. Process, maintain, compile, and report patient information for health requirements and standards. *Examples: Disability Rater; Medical Records Specialist; Medical Library Historian*

Training Category: Postsecondary | none | none

2015 Average Wage:	\$ 18.76
2014 Estimated Employment:	888
2024 Projected Employment:	1,012
Growth Rate, 2014-2024:	14.0%
Annual Openings:	32

Industry		2014 Share	2024 Share
622	Hospitals	44.5%	41.1%
621	Ambulatory Health Care Services	33.2%	36.8%
623	Nursing and Residential Care Facilities	7.2%	7.4%
5611	Office Administrative Services	5.3%	5.4%
5412	Accounting and Bookkeeping Services	2.5%	2.3%
551	Management of Companies and Enterprises	n	n

29-2081 Opticians, Dispensing



Design, measure, fit, and adapt lenses and frames for client according to written optical prescription or specification. Assist client with selecting frames. Measure customer for size of eyeglasses and coordinate frames with facial and eye measurements and optical prescription. Prepare work order for optical laboratory containing instructions for grinding and mounting lenses in frames. Verify exactness of finished lens spectacles. *Examples: Contact Lens Fitter; Eyeglass Fitter*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 18.08
2014 Estimated Employment:	501
2024 Projected Employment:	617
Growth Rate, 2014-2024:	23.1%
Annual Openings:	25

Industry		2014 Share	2024 Share
621	Ambulatory Health Care Services	49.9%	50.7%
	Self-Employed Workers	2.2%	1.9%
446	Health and Personal Care Stores	n	n
452	General Merchandise Stores	n	n

29-2091 Orthotists and Prosthetists



Assist patients with disabling conditions of limbs and spine or with partial or total absence of limb by fitting and preparing orthopedic braces or prostheses.

Training Category: Masters | none | Intern / Res

2015 Average Wage:	\$ 30.72
2014 Estimated Employment:	44
2024 Projected Employment:	55
Growth Rate, 2014-2024:	25.0%
Annual Openings:	1

Industry		2014 Share	2024 Share
621	Ambulatory Health Care Services	36.4%	40.0%
622	Hospitals	13.6%	12.7%
	Self-Employed Workers	4.6%	5.5%
339	Miscellaneous Manufacturing	n	n
551	Management of Companies and Enterprises	n	n

29-2092 Hearing Aid Specialists



Select and fit hearing aids for customers. Administer and interpret tests of hearing. Assess hearing instrument efficacy. Take ear impressions and prepare, design, and modify ear molds.

Training Category: High School | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
	Self-Employed Workers	n	n
446	Health and Personal Care Stores	n	n
452	General Merchandise Stores	n	n
621	Ambulatory Health Care Services	n	n

29-2099 Health Technologists and Technicians, All Other



All health technologists and technicians not listed separately. *Examples: Dialysis Technicians; Electroencephalogram (EEG) Technologist; Electroneurodiagnostic Technologist; Polysomnograph Technician*

Training Category: High School | none | none

2015 Average Wage:	\$ 24.12
2014 Estimated Employment:	497
2024 Projected Employment:	592
Growth Rate, 2014-2024:	19.1%
Annual Openings:	15

Industry		2014 Share	2024 Share
622	Hospitals	52.9%	46.8%
621	Ambulatory Health Care Services	36.0%	42.7%
	Self-Employed Workers	3.8%	4.2%
	Federal Government, ex. Postal Service	1.2%	1.0%
532	Rental and Leasing Services	n	n
6113	Colleges and Universities	n	n

29-9011 Occupational Health and Safety Specialists



Review, evaluate, and analyze work environments and design programs and procedures to control, eliminate, and prevent disease or injury caused by chemical, physical, and biological agents or ergonomic factors. May conduct inspections and enforce adherence to laws and regulations governing the health and safety of individuals. May be employed in the public or private sector.

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 36.85
2014 Estimated Employment:	270
2024 Projected Employment:	286
Growth Rate, 2014-2024:	5.9%
Annual Openings:	7

Industry		2014 Share	2024 Share
	Federal Government, ex. Postal Service	10.7%	9.8%
	Local Government, ex. Education	10.0%	10.1%
6113	Colleges and Universities	6.7%	6.6%
5611	Office Administrative Services	4.8%	5.2%
332	Fabricated Metal Product Manufacturing	n	n
5416	Management & Technical Consulting Svc	n	n

29-9012 Occupational Health and Safety Technicians



Collect data on work environments for analysis by occupational health and safety specialists. Implement and conduct evaluation of programs designed to limit chemical, physical, biological, and ergonomic risks to workers. *Examples: Construction Safety and Health Technician; Ergonomics Technician; Occupational Health and Safety Technologist*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 23.39
2014 Estimated Employment:	43
2024 Projected Employment:	47
Growth Rate, 2014-2024:	9.3%
Annual Openings:	1

Industry		2014 Share	2024 Share
	Local Government, ex. Education	16.3%	17.0%
6113	Colleges and Universities	14.0%	12.8%
334	Computer and Electronic Product Mfg	n	n
523	Financial Investment and Related Activities	n	n
524	Insurance Carriers & Related Activities	n	n
5416	Management & Technical Consulting Svc	n	n

29-9091 Athletic Trainers



Evaluate, advise, and treat athletes to assist recovery from injury, avoid injury, or maintain peak physical fitness. *Example: Certified Athletic Trainer*

Training Category: Bachelor | none | none

2015 Average Wage:	\$46,879.00
2014 Estimated Employment:	150
2024 Projected Employment:	182
Growth Rate, 2014-2024:	21.3%
Annual Openings:	6

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	33.3%	39.0%
6113 Colleges and Universities	32.0%	29.7%
6111 Elementary and Secondary Schools	14.7%	12.6%
622 Hospitals	13.3%	11.5%
Self-Employed Workers	4.0%	4.4%
713 Amusement, Gambling & Recreation Ind	n	n

29-9092 Genetic Counselors



Assess individual or family risk for a variety of inherited conditions, such as genetic disorders and birth defects. Provide information to other healthcare providers or to individuals and families concerned with the risk of inherited conditions. Advise individuals and families to support informed decisionmaking and coping methods for those at risk. *Example: Chromosomal Disorders Counselor; Mitochondrial Disorders Counselor; Prenatal Genetic Counselor*

Training Category: Masters | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	n	n

29-9099 Healthcare Practitioners and Technical Workers, All Other



All healthcare practitioners and technical workers not listed separately. *Example: Podiatric Technician*

Training Category: Postsecondary | none | none

2015 Average Wage:	\$ 31.16
2014 Estimated Employment:	613
2024 Projected Employment:	692
Growth Rate, 2014-2024:	12.9%
Annual Openings:	20

Industry	2014 Share	2024 Share
622 Hospitals	58.4%	54.5%
621 Ambulatory Health Care Services	18.6%	22.1%
6113 Colleges and Universities	6.5%	6.1%
Self-Employed Workers	4.1%	4.9%
624 Social Assistance	3.8%	3.5%
623 Nursing and Residential Care Facilities	3.3%	3.3%

31-1011 Home Health Aides



Provide routine, personal healthcare, such as bathing, dressing, or grooming, to elderly, convalescent, or disabled persons in the home of patients or in a residential care facility. *Example: Home Attendant*

Training Category: none | none. | Short OJT

2015 Average Wage:	\$ 12.82
2014 Estimated Employment:	1,669
2024 Projected Employment:	2,254
Growth Rate, 2014-2024:	35.0%
Annual Openings:	96

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	37.9%	43.4%
624 Social Assistance	25.3%	21.5%
623 Nursing and Residential Care Facilities	17.4%	17.3%
5613 Employment Services	15.0%	13.8%
622 Hospitals	2.3%	1.7%
Self-Employed Workers	2.0%	2.3%

31-1013 Psychiatric Aides



Assist mentally impaired or emotionally disturbed patients, working under direction of nursing and medical staff. *Examples: Charge Attendant; Psychiatric Orderly*

Training Category: High School | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
622 Hospitals	n	n
State Government, ex. Education and Hospitals	n	n

31-1014 Nursing Assistants



Provide basic patient care under direction of nursing staff. Perform duties such as feed, bathe, dress, groom, or move patients, or change linens. May transfer or transport patients. *Examples: Certified Nursing Assistant; Nursing Care Attendant*

Training Category: Postsecondary | none | none

2015 Average Wage:	\$ 14.30
2014 Estimated Employment:	8,548
2024 Projected Employment:	10,026
Growth Rate, 2014-2024:	17.3%
Annual Openings:	341

Industry	2014 Share	2024 Share
623 Nursing and Residential Care Facilities	45.4%	46.4%
622 Hospitals	22.3%	20.0%
Local Government, ex. Education	14.1%	12.7%
621 Ambulatory Health Care Services	8.5%	10.7%
5613 Employment Services	3.7%	3.9%
State Government, ex. Education and Hospitals	2.6%	2.3%

31-1015 Orderlies



Transport patients to areas such as operating rooms or x-ray rooms using wheelchairs, stretchers, or moveable beds. May maintain stocks of supplies or clean and transport equipment. *Examples: Hospital Orderly; Medical Orderly; Surgical Orderly*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 13.46
2014 Estimated Employment:	97
2024 Projected Employment:	103
Growth Rate, 2014-2024:	6.2%
Annual Openings:	3

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	2.6%	2.3%
623 Nursing and Residential Care Facilities	n	n

31-2011 Occupational Therapy Assistants



Assist occupational therapists in providing occupational therapy treatments and procedures. May, in accordance with State laws, assist in development of treatment plans, carry out routine functions, direct activity programs, and document the progress of treatments. Generally requires formal training. *Example: Occupational Therapy Technician*

Training Category: Associate | none | none

2015 Average Wage:	\$ 25.33
2014 Estimated Employment:	175
2024 Projected Employment:	225
Growth Rate, 2014-2024:	28.6%
Annual Openings:	10

Industry	2014 Share	2024 Share
623 Nursing and Residential Care Facilities	34.9%	33.8%
621 Ambulatory Health Care Services	26.9%	34.2%
6111 Elementary and Secondary Schools	20.0%	16.0%
622 Hospitals	14.3%	12.0%
Local Government, ex. Education	2.3%	2.2%
624 Social Assistance	n	n

31-2012 Occupational Therapy Aides



Under close supervision of an occupational therapist or occupational therapy assistant, perform only delegated, selected, or routine tasks in specific situations. These duties include preparing patient and treatment room.

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 14.23
2014 Estimated Employment:	48
2024 Projected Employment:	63
Growth Rate, 2014-2024:	31.3%
Annual Openings:	3

Industry		2014 Share	2024 Share
621	Ambulatory Health Care Services	43.8%	49.2%
622	Hospitals	29.2%	25.4%
623	Nursing and Residential Care Facilities	22.9%	20.6%
6111	Elementary and Secondary Schools	n	n

31-2021 Physical Therapist Assistants



Assist physical therapists in providing physical therapy treatments and procedures. May, in accordance with State laws, assist in the development of treatment plans, carry out routine functions, document the progress of treatment, and modify specific treatments in accordance with patient status and within the scope of treatment plans established by a physical therapist. *Example: Corrective Therapy Assistant*

Training Category: Associate | none | none

2015 Average Wage:	\$ 26.78
2014 Estimated Employment:	515
2024 Projected Employment:	699
Growth Rate, 2014-2024:	35.7%
Annual Openings:	33

Industry		2014 Share	2024 Share
621	Ambulatory Health Care Services	53.8%	60.2%
622	Hospitals	22.7%	17.9%
623	Nursing and Residential Care Facilities	21.2%	19.6%
	Self-Employed Workers	1.0%	1.1%
5613	Employment Services	n	n
	Local Government, ex. Education	n	n

31-2022 Physical Therapist Aides



Under close supervision of a physical therapist or physical therapy assistant, perform only delegated, selected, or routine tasks in specific situations. These duties include preparing the patient and the treatment area. *Example: Physiotherapy Aide*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 14.38
2014 Estimated Employment:	135
2024 Projected Employment:	178
Growth Rate, 2014-2024:	31.9%
Annual Openings:	8

Industry		2014 Share	2024 Share
621	Ambulatory Health Care Services	57.0%	64.0%
622	Hospitals	28.9%	23.6%
623	Nursing and Residential Care Facilities	8.2%	7.3%
	Local Government, ex. Education	4.4%	3.4%
	Self-Employed Workers	n	n
5613	Employment Services	n	n

31-9011 Massage Therapists



Massage customers for hygienic or remedial purposes. *Examples: Masseuse; Masseur; Rubber*

Training Category: Postsecondary | none | none

2015 Average Wage:	\$ 19.66
2014 Estimated Employment:	1,852
2024 Projected Employment:	2,124
Growth Rate, 2014-2024:	14.7%
Annual Openings:	41

Industry		2014 Share	2024 Share
	Self-Employed Workers	81.8%	79.5%
812	Personal and Laundry Services	10.7%	12.3%
621	Ambulatory Health Care Services	4.2%	5.0%
721	Accommodation	2.4%	2.3%
6113	Colleges and Universities	n	n
713	Amusement, Gambling & Recreation Ind	n	n

31-9091 Dental Assistants



Assist dentist, set up patient and equipment, and keep records.

Training Category: Postsecondary | none | none

2015 Average Wage:	\$ 21.87
2014 Estimated Employment:	1,315
2024 Projected Employment:	1,509
Growth Rate, 2014-2024:	14.8%
Annual Openings:	51

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	98.2%	98.3%
622 Hospitals	0.6%	0.5%
Federal Government, ex. Postal Service	0.4%	0.3%
State Government, ex. Education and Hospitals	0.2%	0.1%
551 Management of Companies and Enterprises	n	n
5613 Employment Services	n	n

31-9092 Medical Assistants



Perform administrative and certain clinical duties under the direction of physician. Administrative duties may include scheduling appointments, maintaining medical records, billing, and coding for insurance purposes. Clinical duties may include taking and recording vital signs and medical histories, preparing patients for examination, drawing blood, and administering medications as directed by physician. *Example: Ophthalmic Aide*

Training Category: Postsecondary | none | none

2015 Average Wage:	\$ 16.14
2014 Estimated Employment:	2,129
2024 Projected Employment:	2,542
Growth Rate, 2014-2024:	19.4%
Annual Openings:	85

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	79.2%	81.4%
622 Hospitals	17.9%	15.8%
623 Nursing and Residential Care Facilities	0.3%	0.4%
5412 Accounting and Bookkeeping Services	n	n
551 Management of Companies and Enterprises	n	n
5611 Office Administrative Services	n	n

31-9093 Medical Equipment Preparers



Prepare, sterilize, install, or clean laboratory or healthcare equipment. May perform routine laboratory tasks and operate or inspect equipment. *Examples: Bandage Maker; Hot Packer; Sterilizer*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 16.21
2014 Estimated Employment:	226
2024 Projected Employment:	241
Growth Rate, 2014-2024:	6.6%
Annual Openings:	7

Industry	2014 Share	2024 Share
622 Hospitals	86.7%	85.5%
621 Ambulatory Health Care Services	3.5%	4.6%
Self-Employed Workers	1.8%	2.1%
6112 Junior Colleges	n	n
6113 Colleges and Universities	n	n
5413 Architectural and Engineering Services	n	n

31-9094 Medical Transcriptionists



Use transcribing machines with headset and foot pedal to listen to recordings by physicians and other healthcare professionals dictating a variety of medical reports, such as emergency room visits, diagnostic imaging studies, operations, chart reviews, and final summaries. Transcribe dictated reports and translate medical jargon and abbreviations into their expanded forms. Edit as necessary and return reports in either printed or electronic form to the dictator for review and signature, or correction. *Example: Medical Stenographer*

Training Category: Postsecondary | none | none

2015 Average Wage:	\$ 18.32
2014 Estimated Employment:	315
2024 Projected Employment:	307
Growth Rate, 2014-2024:	-2.5%
Annual Openings:	7

Industry	2014 Share	2024 Share
622 Hospitals	41.6%	31.9%
621 Ambulatory Health Care Services	19.7%	18.9%
5611 Office Administrative Services	14.3%	17.3%
5614 Business Support Services	13.7%	19.9%
Self-Employed Workers	10.8%	12.1%

31-9095 Pharmacy Aides



Record drugs delivered to the pharmacy, store incoming merchandise, and inform the supervisor of stock needs. May operate cash register and accept prescriptions for filling. *Examples: Dispensary Attendant; Prescription Clerk*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 12.73
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
445 Food and Beverage Stores	n	n
446 Health and Personal Care Stores	n	n
452 General Merchandise Stores	n	n

31-9096 Veterinary Assistants and Laboratory Animal Caretakers



Feed, water, and examine pets and other nonfarm animals for signs of illness, disease, or injury in laboratories and animal hospitals and clinics. Clean and disinfect cages and work areas, and sterilize laboratory and surgical equipment. May provide routine post-operative care, administer medication orally or topically, or prepare samples for laboratory examination under the supervision of veterinary or laboratory animal technologists or technicians, veterinarians, or scientists.

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 12.16
2014 Estimated Employment:	188
2024 Projected Employment:	206
Growth Rate, 2014-2024:	9.6%
Annual Openings:	6

Industry	2014 Share	2024 Share
5419 Other Professional & Technical Services	88.8%	89.3%
6113 Colleges and Universities	10.1%	9.7%
812 Personal and Laundry Services	n	n
813 Membership Organizations & Associations	n	n

31-9097 Phlebotomists



Draw blood for tests, transfusions, donations, or research. May explain the procedure to patients and assist in the recovery of patients with adverse reactions.

Training Category: Postsecondary | none | none

2015 Average Wage:	\$ 16.87
2014 Estimated Employment:	669
2024 Projected Employment:	790
Growth Rate, 2014-2024:	18.1%
Annual Openings:	26

Industry	2014 Share	2024 Share
622 Hospitals	54.3%	50.3%
621 Ambulatory Health Care Services	40.4%	44.3%
5611 Office Administrative Services	4.8%	4.7%
Self-Employed Workers	n	n
623 Nursing and Residential Care Facilities	n	n

31-9099 Healthcare Support Workers, All Other



All healthcare support workers not listed separately. *Example: Ortho/Prosthetic Aide*

Training Category: High School | none | none

2015 Average Wage:	\$ 16.04
2014 Estimated Employment:	468
2024 Projected Employment:	527
Growth Rate, 2014-2024:	12.6%
Annual Openings:	16

Industry	2014 Share	2024 Share
622 Hospitals	42.1%	38.9%
621 Ambulatory Health Care Services	20.7%	24.5%
623 Nursing and Residential Care Facilities	13.7%	15.2%
6111 Elementary and Secondary Schools	9.6%	8.7%
Federal Government, ex. Postal Service	9.4%	8.2%
446 Health and Personal Care Stores	1.3%	1.3%

33-1011 First-Line Supervisors of Correctional Officers



Supervise and coordinate activities of correctional officers and jailers. *Examples: Prison Guard Supervisor; Prison Warden*

Training Category: High School | < 5 yrs | Moderate OJT

2015 Average Wage:	\$ 28.32
2014 Estimated Employment:	112
2024 Projected Employment:	116
Growth Rate, 2014-2024:	3.6%
Annual Openings:	3

Industry	2014 Share	2024 Share
Local Government, ex. Education	69.6%	70.7%
State Government, ex. Education and Hospitals	20.5%	20.7%
Federal Government, ex. Postal Service	9.8%	8.6%

33-1012 First-Line Supervisors of Police and Detectives



Supervise and coordinate activities of members of police force. *Example: Precinct Captain*

Training Category: High School | < 5 yrs | Moderate OJT

2015 Average Wage:	\$ 37.32
2014 Estimated Employment:	488
2024 Projected Employment:	515
Growth Rate, 2014-2024:	5.5%
Annual Openings:	20

Industry	2014 Share	2024 Share
Local Government, ex. Education	92.8%	93.2%
State Government, ex. Education and Hospitals	3.9%	3.9%
Federal Government, ex. Postal Service	2.7%	2.3%

33-1021 First-Line Supervisors of Fire Fighting and Prevention Workers



Supervise and coordinate activities of workers engaged in fire fighting and fire prevention and control. *Examples: Fire Captain; Fire Marshal*

Training Category: Postsecondary | < 5 yrs | Moderate OJT

2015 Average Wage:	\$ 30.99
2014 Estimated Employment:	493
2024 Projected Employment:	522
Growth Rate, 2014-2024:	5.9%
Annual Openings:	26

Industry	2014 Share	2024 Share
Local Government, ex. Education	98.0%	97.9%
State Government, ex. Education and Hospitals	1.2%	1.3%
5619 Other Support Services	0.8%	0.8%

33-1099 First-Line Supervisors of Protective Service Workers, All Other



All protective service supervisors not listed separately. *Examples: Security Director; Supervisor Animal Cruelty Investigation; Supervisor Plant Protection*

Training Category: High School | < 5 yrs | none

2015 Average Wage:	\$ 29.75
2014 Estimated Employment:	259
2024 Projected Employment:	280
Growth Rate, 2014-2024:	8.1%
Annual Openings:	9

Industry	2014 Share	2024 Share
5616 Investigation and Security Services	32.8%	37.1%
452 General Merchandise Stores	14.7%	14.3%
Federal Government, ex. Postal Service	7.7%	6.8%
622 Hospitals	5.8%	5.4%
State Government, ex. Education and Hospitals	5.4%	5.4%
221 Utilities	n	n

33-2011 Firefighters



Control and extinguish fires or respond to emergency situations where life, property, or the environment is at risk. Duties may include fire prevention, emergency medical service, hazardous material response, search and rescue, and disaster management. *Examples: Explosive Ordnance Disposal Technician; Fireboat Operator; Smoke Jumper*

Training Category: Postsecondary | none | Long OJT

2015 Average Wage:	\$ 20.29
2014 Estimated Employment:	1,504
2024 Projected Employment:	1,594
Growth Rate, 2014-2024:	6.0%
Annual Openings:	53

Industry	2014 Share	2024 Share
Local Government, ex. Education	93.7%	93.7%
5619 Other Support Services	4.9%	4.9%
State Government, ex. Education and Hospitals	1.5%	1.4%

33-2021 Fire Inspectors and Investigators



Inspect buildings to detect fire hazards and enforce local ordinances and State laws. Investigate and gather facts to determine cause of fires and explosions. *Example: Arson Investigator*

Training Category: Postsecondary | 5+ yrs | Moderate OJT

2015 Average Wage:	\$ 25.94
2014 Estimated Employment:	59
2024 Projected Employment:	62
Growth Rate, 2014-2024:	5.1%
Annual Openings:	2

Industry	2014 Share	2024 Share
Local Government, ex. Education	59.3%	59.7%
State Government, ex. Education and Hospitals	37.3%	37.1%
Self-Employed Workers	3.4%	3.2%

33-2022 Forest Fire Inspectors and Prevention Specialists



Enforce fire regulations and inspect for forest fire hazards. Report forest fires and weather conditions. *Examples: Forest Fire Control Officer; District Ranger; Fire Ranger*

Training Category: Postsecondary | < 5 yrs | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	184
2024 Projected Employment:	213
Growth Rate, 2014-2024:	15.8%
Annual Openings:	8

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	98.9%	99.1%
Local Government, ex. Education	1.1%	0.9%

33-3011 Bailiffs



Maintain order in courts of law. *Examples: Court Officer; Sergeant at Arms*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 10.94
2014 Estimated Employment:	93
2024 Projected Employment:	99
Growth Rate, 2014-2024:	6.5%
Annual Openings:	4

Industry	2014 Share	2024 Share
Local Government, ex. Education	100.0%	100.0%

33-3012 Correctional Officers and Jailers



Guard inmates in penal or rehabilitative institution in accordance with established regulations and procedures. May guard prisoners in transit between jail, courtroom, prison, or other point. Include deputy sheriffs and police who spend the majority of their time guarding prisoners in correctional institutions. *Examples: Convict Guard; Custodial Officer; Prison Guard*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 20.26
2014 Estimated Employment:	1,013
2024 Projected Employment:	1,062
Growth Rate, 2014-2024:	4.8%
Annual Openings:	33

Industry	2014 Share	2024 Share
Local Government, ex. Education	60.6%	61.2%
State Government, ex. Education and Hospitals	28.8%	28.9%
Federal Government, ex. Postal Service	10.6%	9.9%

33-3021 Detectives and Criminal Investigators



Conduct investigations related to suspected violations of Federal, State, or local laws to prevent or solve crimes. *Examples: Police Inspector; Deputy United States Marshal; Narcotics Agent*

Training Category: High School | < 5 yrs | Moderate OJT

2015 Average Wage:	\$ 35.83
2014 Estimated Employment:	324
2024 Projected Employment:	339
Growth Rate, 2014-2024:	4.6%
Annual Openings:	10

Industry	2014 Share	2024 Share
Local Government, ex. Education	59.6%	60.2%
State Government, ex. Education and Hospitals	21.6%	21.8%
Federal Government, ex. Postal Service	18.5%	17.4%

33-3031 Fish and Game Wardens



Patrol assigned area to prevent fish and game law violations. Investigate reports of damage to crops or property by wildlife. Compile biological data. *Examples: State Game Protector; Wildlife Control Agent*

Training Category: Bachelor | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	42
2024 Projected Employment:	45
Growth Rate, 2014-2024:	7.1%
Annual Openings:	1

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	100.0%	100.0%

33-3041 Parking Enforcement Workers



Patrol assigned area, such as public parking lot or section of city to issue tickets to overtime parking violators and illegally parked vehicles. *Examples: Parking Enforcement Officer; Parking Meter Checker*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 17.61
2014 Estimated Employment:	56
2024 Projected Employment:	44
Growth Rate, 2014-2024:	-21.4%
Annual Openings:	2

Industry	2014 Share	2024 Share
Local Government, ex. Education	92.9%	93.2%
6113 Colleges and Universities	7.1%	6.8%

33-3051 Police and Sheriff's Patrol Officers



Maintain order, enforce laws and ordinances, and protect life and property in an assigned patrol district. Perform combination of following duties: patrol a specific area on foot or in a vehicle; direct traffic; issue traffic summonses; investigate accidents; apprehend and arrest suspects, or serve legal processes of courts. *Examples: Border Guard; Campus Police; City Constable*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 25.60
2014 Estimated Employment:	2,844
2024 Projected Employment:	3,010
Growth Rate, 2014-2024:	5.8%
Annual Openings:	111

Industry	2014 Share	2024 Share
Local Government, ex. Education	87.7%	87.8%
State Government, ex. Education and Hospitals	10.6%	10.6%
6113 Colleges and Universities	1.4%	1.4%
Federal Government, ex. Postal Service	0.3%	0.2%

33-9011 Animal Control Workers



Handle animals for the purpose of investigations of mistreatment, or control of abandoned, dangerous, or unattended animals. *Examples: Animal Warden; Dog Catcher; Humane Officer*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 15.78
2014 Estimated Employment:	71
2024 Projected Employment:	74
Growth Rate, 2014-2024:	4.2%
Annual Openings:	2

Industry	2014 Share	2024 Share
Local Government, ex. Education	94.4%	94.6%
Self-Employed Workers	n	n
812 Personal and Laundry Services	n	n

33-9021 Private Detectives and Investigators



Detect occurrences of unlawful acts or infractions of rules in private establishment, or seek, examine, and compile information for client. *Example: House Detective*

Training Category: High School | < 5 yrs | Moderate OJT

2015 Average Wage:	\$ 21.48
2014 Estimated Employment:	60
2024 Projected Employment:	64
Growth Rate, 2014-2024:	6.7%
Annual Openings:	2

Industry	2014 Share	2024 Share
5616 Investigation and Security Services	35.0%	39.1%
Self-Employed Workers	21.7%	20.3%
5411 Legal Services	16.7%	15.6%
445 Food and Beverage Stores	n	n
452 General Merchandise Stores	n	n
517 Telecommunications	n	n

33-9032 Security Guards



Guard, patrol, or monitor premises to prevent theft, violence, or infractions of rules. *Examples: Bodyguard; Watchguard*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 15.39
2014 Estimated Employment:	2,585
2024 Projected Employment:	2,926
Growth Rate, 2014-2024:	13.2%
Annual Openings:	70

Industry	2014 Share	2024 Share
6113 Colleges and Universities	5.5%	5.2%
221 Utilities	n	n
5613 Employment Services	n	n
5616 Investigation and Security Services	n	n
622 Hospitals	n	n
722 Food Services and Drinking Places	n	n

33-9091 Crossing Guards



Guide or control vehicular or pedestrian traffic at such places as streets, schools, railroad crossings, or construction sites. *Examples: Gate Operator; School Patrol*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 12.86
2014 Estimated Employment:	480
2024 Projected Employment:	513
Growth Rate, 2014-2024:	6.9%
Annual Openings:	12

Industry	2014 Share	2024 Share
5619 Other Support Services	63.3%	63.9%
Local Government, ex. Education	29.0%	28.7%
6111 Elementary and Secondary Schools	3.8%	3.5%
237 Heavy and Civil Engineering Construction	2.1%	2.0%
Self-Employed Workers	1.3%	1.2%
5616 Investigation and Security Services	0.6%	0.8%

33-9092 Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers



Monitor recreational areas, such as pools, beaches, or ski slopes to provide assistance and protection to participants.

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 10.71
2014 Estimated Employment:	522
2024 Projected Employment:	557
Growth Rate, 2014-2024:	6.7%
Annual Openings:	11

Industry	2014 Share	2024 Share
813 Membership Organizations & Associations	30.1%	28.9%
State Government, ex. Education and Hospitals	27.2%	26.9%
713 Amusement, Gambling & Recreation Ind	24.9%	26.4%
Local Government, ex. Education	8.2%	8.3%
6113 Colleges and Universities	7.9%	7.9%
6111 Elementary and Secondary Schools	n	n

33-9093 Transportation Security Screeners



Conduct screening of passengers, baggage, or cargo to ensure compliance with Transportation Security Administration (TSA) regulations. May operate basic security equipment such as x-ray machines and hand wands at screening checkpoints. *Examples: Airport Baggage Screener; Airport Security Screener; TSA Screener*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 19.61
2014 Estimated Employment:	143
2024 Projected Employment:	140
Growth Rate, 2014-2024:	-2.1%
Annual Openings:	2

Industry	2014 Share	2024 Share
Federal Government, ex. Postal Service	100.0%	100.0%

33-9099 Protective Service Workers, All Other



All protective service workers not listed separately. *Examples: Park Ranger; Surveillance-System Monitor; Bus Monitor*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 15.40
2014 Estimated Employment:	322
2024 Projected Employment:	344
Growth Rate, 2014-2024:	6.8%
Annual Openings:	6

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	23.9%	23.6%
485 Transit and Ground Passenger Transport	23.6%	24.1%
Local Government, ex. Education	10.6%	10.5%
493 Warehousing and Storage	7.5%	7.3%
452 General Merchandise Stores	7.1%	7.6%
6111 Elementary and Secondary Schools	7.1%	7.0%

35-1011 Chefs and Head Cooks



Direct the preparation, seasoning, and cooking of salads, soups, fish, meats, vegetables, desserts, or other foods. May plan and price menu items, order supplies, and keep records and accounts. May participate in cooking. *Examples: Executive Chef; Pastry Chef; Sous Chef*

Training Category: High School | 5+ years | none

2015 Average Wage:	\$ 20.88
2014 Estimated Employment:	759
2024 Projected Employment:	831
Growth Rate, 2014-2024:	9.5%
Annual Openings:	18

Industry	2014 Share	2024 Share
722 Food Services and Drinking Places	65.7%	65.8%
721 Accommodation	11.7%	11.7%
Self-Employed Workers	4.5%	4.1%
622 Hospitals	3.4%	3.4%
6111 Elementary and Secondary Schools	2.2%	2.2%
713 Amusement, Gambling & Recreation Ind	n	n

35-1012 First-Line Supervisors of Food Preparation and Serving Workers



Supervise workers engaged in preparing and serving food. *Examples: Cafeteria Manager; Caterer; Bar Manager*

Training Category: High School | < 5 yrs | none

2015 Average Wage:	\$ 17.51
2014 Estimated Employment:	3,266
2024 Projected Employment:	3,622
Growth Rate, 2014-2024:	10.9%
Annual Openings:	133

Industry	2014 Share	2024 Share
722 Food Services and Drinking Places	73.6%	74.5%
6111 Elementary and Secondary Schools	5.5%	4.8%
445 Food and Beverage Stores	3.8%	3.8%
623 Nursing and Residential Care Facilities	3.6%	4.2%
6113 Colleges and Universities	2.2%	2.0%
713 Amusement, Gambling & Recreation Ind	2.1%	2.2%

35-2011 Cooks, Fast Food



Prepare and cook food in a fast food restaurant with a limited menu. Duties of the cooks are limited to preparation of a few basic items and normally involve operating large-volume single-purpose cooking equipment. *Examples: Fry Cook; Pizza Maker*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 10.09
2014 Estimated Employment:	1,450
2024 Projected Employment:	1,246
Growth Rate, 2014-2024:	-14.1%
Annual Openings:	38

Industry	2014 Share	2024 Share
722 Food Services and Drinking Places	96.1%	95.0%
713 Amusement, Gambling & Recreation Ind	n	n
721 Accommodation	n	n

35-2012 Cooks, Institution and Cafeteria



Prepare and cook large quantities of food for institutions, such as schools, hospitals, or cafeterias. *Examples: Camp Cook; Mess Cook; Galley Cook*

Training Category: none | none. | Short OJT

2015 Average Wage:	\$ 14.81
2014 Estimated Employment:	1,510
2024 Projected Employment:	1,637
Growth Rate, 2014-2024:	8.4%
Annual Openings:	53

Industry	2014 Share	2024 Share
623 Nursing and Residential Care Facilities	27.7%	32.8%
6111 Elementary and Secondary Schools	22.6%	18.6%
722 Food Services and Drinking Places	14.6%	15.8%
622 Hospitals	13.4%	13.0%
624 Social Assistance	6.6%	6.5%
6113 Colleges and Universities	5.2%	5.1%

35-2014 Cooks, Restaurant



Prepare, season, and cook soups, meats, vegetables, desserts, or other foodstuffs in restaurants. May order supplies, keep records and accounts, price items on menu, or plan menu. *Examples: Broiler Cook; Specialty Foreign Food Cook; Garde-manger*

Training Category: none | < 5 yrs | Moderate OJT

2015 Average Wage:	\$ 12.95
2014 Estimated Employment:	5,276
2024 Projected Employment:	6,124
Growth Rate, 2014-2024:	16.1%
Annual Openings:	225

Industry	2014 Share	2024 Share
722 Food Services and Drinking Places	93.5%	93.8%
721 Accommodation	3.9%	3.6%
713 Amusement, Gambling & Recreation Ind	2.0%	2.0%
6113 Colleges and Universities	0.3%	0.3%
312 Beverage & Tobacco Product Manufacturing	n	n
813 Membership Organizations & Associations	n	n

35-2015 Cooks, Short Order



Prepare and cook to order a variety of foods that require only a short preparation time. May take orders from customers and serve patrons at counters or tables. *Examples: Barbecue Cook; Griddle Cook*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 9.69
2014 Estimated Employment:	3,228
2024 Projected Employment:	3,028
Growth Rate, 2014-2024:	-6.2%
Annual Openings:	85

Industry	2014 Share	2024 Share
722 Food Services and Drinking Places	91.2%	90.1%
447 Gasoline Stations	3.3%	3.6%
445 Food and Beverage Stores	2.5%	2.9%
721 Accommodation	1.4%	1.7%
713 Amusement, Gambling & Recreation Ind	0.9%	1.1%
6113 Colleges and Universities	0.3%	0.4%

35-2019 Cooks, All Other



All cooks not listed separately.

Training Category: none | none | Moderate OJT

2015 Average Wage:	\$ 16.14
2014 Estimated Employment:	152
2024 Projected Employment:	160
Growth Rate, 2014-2024:	5.3%
Annual Openings:	5

Industry	2014 Share	2024 Share
722 Food Services and Drinking Places	44.7%	43.8%
721 Accommodation	25.0%	25.6%
453 Miscellaneous Store Retailers	15.8%	15.0%
531 Real Estate	n	n
5613 Employment Services	n	n
624 Social Assistance	n	n

35-2021 Food Preparation Workers



Perform a variety of food preparation duties other than cooking, such as preparing cold foods and shellfish, slicing meat, and brewing coffee or tea. *Examples: Coffee Maker; Sandwich Maker*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 10.77
2014 Estimated Employment:	2,969
2024 Projected Employment:	3,180
Growth Rate, 2014-2024:	7.1%
Annual Openings:	104

Industry	2014 Share	2024 Share
722 Food Services and Drinking Places	61.8%	62.7%
445 Food and Beverage Stores	7.9%	8.4%
Local Government, ex. Education	6.2%	5.5%
6113 Colleges and Universities	4.2%	4.2%
622 Hospitals	3.8%	3.3%
6111 Elementary and Secondary Schools	3.6%	3.0%

35-3011 Bartenders



Mix and serve drinks to patrons, directly or through waitstaff. *Examples: Barkeeper; Taproom Attendant*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 10.10
2014 Estimated Employment:	3,187
2024 Projected Employment:	3,547
Growth Rate, 2014-2024:	11.3%
Annual Openings:	156

Industry	2014 Share	2024 Share
722 Food Services and Drinking Places	65.6%	66.7%
813 Membership Organizations & Associations	19.7%	18.8%
713 Amusement, Gambling & Recreation Ind	5.6%	5.6%
721 Accommodation	4.9%	4.7%
5613 Employment Services	2.6%	2.8%
711 Performing Arts and Spectator Sports	0.6%	0.6%

35-3021 Combined Food Preparation and Serving Workers, Including Fast Food



Perform duties which combine both food preparation and food service. *Examples: Caterers Aide; Deli Clerk; Mess Attendant*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 9.30
2014 Estimated Employment:	12,218
2024 Projected Employment:	13,705
Growth Rate, 2014-2024:	12.2%
Annual Openings:	544

Industry	2014 Share	2024 Share
722 Food Services and Drinking Places	70.1%	70.4%
445 Food and Beverage Stores	13.7%	13.9%
6111 Elementary and Secondary Schools	3.5%	3.3%
447 Gasoline Stations	2.4%	2.5%
713 Amusement, Gambling & Recreation Ind	2.1%	2.1%
623 Nursing and Residential Care Facilities	1.8%	2.1%

35-3022 Counter Attendants, Cafeteria, Food Concession, and Coffee Shop



Serve food to diners at counter or from a steam table. *Examples: Canteen Operator; Snack Bar Attendant; Hot Dog Attendant*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 10.25
2014 Estimated Employment:	2,300
2024 Projected Employment:	2,461
Growth Rate, 2014-2024:	7.0%
Annual Openings:	154

Industry	2014 Share	2024 Share
722 Food Services and Drinking Places	58.4%	58.6%
6111 Elementary and Secondary Schools	18.3%	17.7%
512 Motion Picture & Sound Recording Ind	7.9%	7.8%
6113 Colleges and Universities	2.5%	2.5%
713 Amusement, Gambling & Recreation Ind	2.5%	2.6%
711 Performing Arts and Spectator Sports	2.1%	2.2%

35-3031 Waiters and Waitresses



Take orders and serve food and beverages to patrons at tables in dining establishment. *Examples: Cocktail Waiter; Wine Steward; Head Waitress*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 11.53
2014 Estimated Employment:	12,093
2024 Projected Employment:	12,686
Growth Rate, 2014-2024:	4.9%
Annual Openings:	641

Industry	2014 Share	2024 Share
722 Food Services and Drinking Places	87.4%	86.0%
721 Accommodation	6.5%	6.5%
713 Amusement, Gambling & Recreation Ind	2.0%	2.1%
622 Hospitals	n	n
623 Nursing and Residential Care Facilities	n	n

35-3041 Food Servers, Nonrestaurant



Serve food to patrons outside of a restaurant environment, such as in hotels, hospital rooms, or cars. *Examples: Curb Attendant; Hospital Tray-Service Worker; Room Service Clerk*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 10.42
2014 Estimated Employment:	1,103
2024 Projected Employment:	1,296
Growth Rate, 2014-2024:	17.5%
Annual Openings:	46

Industry	2014 Share	2024 Share
623 Nursing and Residential Care Facilities	42.5%	47.8%
622 Hospitals	27.5%	24.5%
721 Accommodation	8.7%	7.3%
5613 Employment Services	8.3%	8.8%
722 Food Services and Drinking Places	6.3%	5.6%
6111 Elementary and Secondary Schools	2.9%	2.6%

35-9011 Dining Room and Cafeteria Attendants and Bartender Helpers



Facilitate food service. Clean tables, carry dirty dishes, replace soiled table linens; set tables; replenish supply of clean linens, silverware, glassware, and dishes; supply service bar with food, and serve water, butter, and coffee to patrons. *Examples: Lunchroom Attendant; Tray Setter*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 9.00
2014 Estimated Employment:	1,608
2024 Projected Employment:	1,758
Growth Rate, 2014-2024:	9.3%
Annual Openings:	95

Industry	2014 Share	2024 Share
722 Food Services and Drinking Places	72.3%	70.0%
721 Accommodation	9.3%	9.2%
623 Nursing and Residential Care Facilities	8.2%	10.1%
5613 Employment Services	3.5%	4.0%
713 Amusement, Gambling & Recreation Ind	3.4%	3.4%
622 Hospitals	1.7%	1.7%

35-9021 Dishwashers



Clean dishes, kitchen, food preparation equipment, or utensils. *Examples: Kitchen Cleaner; Glass Washer; Pot Washer*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 9.38
2014 Estimated Employment:	2,184
2024 Projected Employment:	2,160
Growth Rate, 2014-2024:	-1.1%
Annual Openings:	94

Industry	2014 Share	2024 Share
722 Food Services and Drinking Places	75.3%	71.3%
623 Nursing and Residential Care Facilities	7.9%	10.6%
721 Accommodation	6.7%	7.3%
6111 Elementary and Secondary Schools	2.9%	3.1%
6113 Colleges and Universities	2.0%	2.2%
713 Amusement, Gambling & Recreation Ind	n	n

35-9031 Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop



Welcome patrons, seat them at tables or in lounge, and help ensure quality of facilities and service. *Examples: Maitre D'; Dining Room Host*

Training Category: none | none | none

2015 Average Wage:	\$ 9.68
2014 Estimated Employment:	2,318
2024 Projected Employment:	2,451
Growth Rate, 2014-2024:	5.7%
Annual Openings:	177

Industry	2014 Share	2024 Share
722 Food Services and Drinking Places	91.1%	91.2%
721 Accommodation	2.6%	2.3%
622 Hospitals	2.5%	2.5%
6111 Elementary and Secondary Schools	1.9%	1.9%
5613 Employment Services	1.2%	1.4%
Self-Employed Workers	0.4%	0.4%

35-9099 Food Preparation and Serving Related Workers, All Other



All food preparation and serving related workers not listed separately. *Examples: Vending Machine Attendant; Cafeteria Line Runner*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 9.81
2014 Estimated Employment:	164
2024 Projected Employment:	176
Growth Rate, 2014-2024:	7.3%
Annual Openings:	9

Industry	2014 Share	2024 Share
722 Food Services and Drinking Places	74.4%	75.0%
624 Social Assistance	20.1%	19.9%
6111 Elementary and Secondary Schools	2.4%	2.3%
452 General Merchandise Stores	n	n
551 Management of Companies and Enterprises	n	n
622 Hospitals	n	n

37-1011 First-Line Supervisors of Housekeeping and Janitorial Workers



Supervise work activities of cleaning personnel in hotels, hospitals, offices, and other establishments. *Examples: Building Superintendent; Household Manager; Housekeeping Supervisor*

Training Category: High School | < 5 yrs | none

2015 Average Wage:	\$ 19.26
2014 Estimated Employment:	1,046
2024 Projected Employment:	1,127
Growth Rate, 2014-2024:	7.7%
Annual Openings:	24

Industry	2014 Share	2024 Share
Self-Employed Workers	25.9%	24.9%
721 Accommodation	15.8%	15.9%
5617 Services to Buildings and Dwellings	15.7%	15.5%
6111 Elementary and Secondary Schools	12.3%	11.9%
623 Nursing and Residential Care Facilities	7.0%	8.0%
622 Hospitals	3.9%	3.8%

37-1012 First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers



Plan, organize, direct, or coordinate activities of workers engaged in landscaping or groundskeeping activities, such as planting and maintaining ornamental trees, shrubs, flowers, and lawns, and applying fertilizers, pesticides, and other chemicals, according to contract specifications. *Examples: Landscape Contractor; Golf Course Superintendent; Nursery Supervisor*

Training Category: High School | < 5 yrs | none

2015 Average Wage:	\$ 22.18
2014 Estimated Employment:	988
2024 Projected Employment:	1,061
Growth Rate, 2014-2024:	7.4%
Annual Openings:	23

Industry	2014 Share	2024 Share
Self-Employed Workers	40.1%	38.7%
5617 Services to Buildings and Dwellings	33.0%	33.6%
713 Amusement, Gambling & Recreation Ind	9.7%	10.0%
Local Government, ex. Education	3.4%	3.4%
721 Accommodation	3.0%	3.1%
531 Real Estate	n	n

37-2011 Janitors and Cleaners, Except Maids and Housekeeping Cleaners



Keep buildings in clean and orderly condition. Perform heavy cleaning duties, such as cleaning floors, shampooing rugs, washing walls and glass, and removing rubbish. Duties may include tending furnace and boiler, performing routine maintenance activities, notifying management of need for repairs, and cleaning snow or debris from sidewalk. *Examples: Floor Cleaner; Building Custodian; Window Washer*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 13.27
2014 Estimated Employment:	9,997
2024 Projected Employment:	10,628
Growth Rate, 2014-2024:	6.3%
Annual Openings:	262

Industry	2014 Share	2024 Share
5617 Services to Buildings and Dwellings	31.0%	31.0%
6111 Elementary and Secondary Schools	16.1%	15.6%
6113 Colleges and Universities	5.5%	5.5%
813 Membership Organizations & Associations	5.5%	5.4%
Local Government, ex. Education	4.0%	4.0%
Self-Employed Workers	3.6%	3.5%

37-2012 Maids and Housekeeping Cleaners



Perform any combination of light cleaning duties to maintain private households or commercial establishments, such as hotels, restaurants, and hospitals, in a clean and orderly manner. Duties include making beds, replenishing linens, cleaning rooms and halls, and vacuuming. *Examples: Bed Maker; Chamber Maid; Housekeeper*

Training Category: none | none. | Short OJT

2015 Average Wage:	\$ 10.52
2014 Estimated Employment:	5,891
2024 Projected Employment:	6,502
Growth Rate, 2014-2024:	10.4%
Annual Openings:	201

Industry	2014 Share	2024 Share
721 Accommodation	40.2%	39.7%
623 Nursing and Residential Care Facilities	10.9%	12.5%
622 Hospitals	9.0%	8.5%
Self-Employed Workers	8.6%	8.1%
814 Private Households	6.5%	6.0%
5617 Services to Buildings and Dwellings	5.8%	5.6%

37-2019 Building Cleaning Workers, All Other



All building cleaning workers not listed separately. *Examples: Chimney Sweep; Air Purifier Servicer*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 16.43
2014 Estimated Employment:	56
2024 Projected Employment:	63
Growth Rate, 2014-2024:	12.5%
Annual Openings:	2

Industry	2014 Share	2024 Share
562 Waste Management and Remediation Service	41.1%	42.9%
5617 Services to Buildings and Dwellings	37.5%	36.5%
622 Hospitals	12.5%	11.1%
Self-Employed Workers	n	n
325 Chemical Manufacturing	n	n

37-2021 Pest Control Workers



Spray or release chemical solutions or toxic gases and set traps to kill pests and vermin, such as mice, termites, and roaches, that infest buildings and surrounding areas. *Examples: Exterminator Helper; Fumigator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 17.94
2014 Estimated Employment:	234
2024 Projected Employment:	235
Growth Rate, 2014-2024:	0.4%
Annual Openings:	6

Industry	2014 Share	2024 Share
5617 Services to Buildings and Dwellings	94.0%	93.6%
Self-Employed Workers	6.0%	6.4%

37-3011 Landscaping and Groundskeeping Workers



Landscape or maintain grounds of property using hand or power tools or equipment. Workers typically perform a variety of tasks, which may include any combination of the following: sod laying, mowing, trimming, planting, watering, fertilizing, digging, raking, sprinkler installation, and installation of mortarless segmental concrete masonry wall units. *Examples: Landscape Gardener; Outdoor Sprinkler Installer*

Training Category: none | none. | Short OJT

2015 Average Wage:	\$ 14.31
2014 Estimated Employment:	6,893
2024 Projected Employment:	7,459
Growth Rate, 2014-2024:	8.2%
Annual Openings:	181

Industry	2014 Share	2024 Share
5617 Services to Buildings and Dwellings	45.0%	45.5%
Self-Employed Workers	22.4%	21.5%
713 Amusement, Gambling & Recreation Ind	9.2%	9.5%
721 Accommodation	5.1%	5.4%
Local Government, ex. Education	4.5%	4.4%
531 Real Estate	3.7%	3.7%

37-3012 Pesticide Handlers, Sprayers, and Applicators, Vegetation



Mix or apply pesticides, herbicides, fungicides, or insecticides through sprays, dusts, vapors, soil incorporation or chemical application on trees, shrubs, lawns, or botanical crops.

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	32
2024 Projected Employment:	35
Growth Rate, 2014-2024:	9.4%
Annual Openings:	1

Industry		2014 Share	2024 Share
5617	Services to Buildings and Dwellings	62.5%	62.9%
	Self-Employed Workers	18.8%	17.1%
111	Crop Production	18.8%	20.0%

37-3013 Tree Trimmers and Pruners



Cut away dead or excess branches from trees or shrubs to maintain right-of-way for roads, sidewalks, or utilities, or to improve appearance, health, and value of tree. Prune or treat trees or shrubs using handsaws, pruning hooks, sheers, and clippers. May use truck-mounted lifts and power pruners. May fill cavities in trees to promote healing and prevent deterioration. *Examples: Tree Doctor; Grape Vine Pruner*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 20.78
2014 Estimated Employment:	180
2024 Projected Employment:	192
Growth Rate, 2014-2024:	6.7%
Annual Openings:	4

Industry		2014 Share	2024 Share
5617	Services to Buildings and Dwellings	66.7%	68.2%
	Self-Employed Workers	23.9%	22.9%
6113	Colleges and Universities	3.3%	3.1%
	Local Government, ex. Education	2.8%	3.1%
221	Utilities	n	n
622	Hospitals	n	n

37-3019 Grounds Maintenance Workers, All Other



All grounds maintenance workers not listed separately. *Example: Trailhead Maintenance worker; Tree Trimmer Helper*

Training Category: none | none. | Short OJT

2015 Average Wage:	\$ 13.63
2014 Estimated Employment:	383
2024 Projected Employment:	445
Growth Rate, 2014-2024:	16.2%
Annual Openings:	13

Industry		2014 Share	2024 Share
721	Accommodation	74.4%	77.1%
	Self-Employed Workers	17.8%	16.0%
	State Government, ex. Education and Hospitals	5.0%	4.5%
491	Postal Service	0.8%	0.5%
5613	Employment Services	n	n
713	Amusement, Gambling & Recreation Ind	n	n

39-1011 Gaming Supervisors



Supervise and coordinate activities of workers in assigned gaming areas. Circulate among tables and observe operations. Ensure that stations and games are covered for each shift. May explain and interpret operating rules of house to patrons. *Examples: Pit Boss; Table Games Supervisor*

Training Category: High School | < 5 yrs | none

2015 Average Wage:	n/a
2014 Estimated Employment:	48
2024 Projected Employment:	52
Growth Rate, 2014-2024:	8.3%
Annual Openings:	2

Industry		2014 Share	2024 Share
713	Amusement, Gambling & Recreation Ind	62.5%	63.5%
	Self-Employed Workers	37.5%	36.5%

39-1021 First-Line Supervisors of Personal Service Workers



Supervise and coordinate activities of personal service workers, such as supervisors of flight attendants, hairdressers, or caddies. *Examples: Caddy-master; Barber Shop Manager; Health Club Manager*

Training Category: High School | < 5 yrs | none

2015 Average Wage:	\$ 17.53
2014 Estimated Employment:	1,013
2024 Projected Employment:	1,131
Growth Rate, 2014-2024:	11.7%
Annual Openings:	31

Industry	2014 Share	2024 Share
Self-Employed Workers	29.9%	29.6%
713 Amusement, Gambling & Recreation Ind	12.5%	12.6%
623 Nursing and Residential Care Facilities	12.2%	14.1%
624 Social Assistance	11.9%	11.5%
812 Personal and Laundry Services	11.8%	11.4%
State Government, ex. Education and Hospitals	8.6%	8.1%

39-2011 Animal Trainers



Train animals for riding, harness, security, performance, or obedience, or assisting persons with disabilities. Accustom animals to human voice and contact; and condition animals to respond to commands. Train animals according to prescribed standards for show or competition. May train animals to carry pack loads or work as part of pack team. *Examples: Dog Trainer; Horse Breaker; Lion Trainer*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 17.08
2014 Estimated Employment:	117
2024 Projected Employment:	129
Growth Rate, 2014-2024:	10.3%
Annual Openings:	5

Industry	2014 Share	2024 Share
Self-Employed Workers	40.2%	42.6%
813 Membership Organizations & Associations	19.7%	19.4%
812 Personal and Laundry Services	15.4%	14.7%
453 Miscellaneous Store Retailers	8.6%	7.8%
112 Animal Production	6.8%	7.0%
115 Agriculture & Forestry Support Activity	n	n

39-2021 Nonfarm Animal Caretakers



Feed, water, groom, bathe, exercise, or otherwise care for pets and other nonfarm animals, such as dogs, cats, ornamental fish or birds, zoo animals, and mice. Work in settings such as kennels, animal shelters, zoos, circuses, and aquariums. May keep records of feedings, treatments, and animals received or discharged. May clean, disinfect, and repair cages, pens, or fish tanks. *Examples: Dog Groomer; Kennel Worker; Stable Attendant*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 10.61
2014 Estimated Employment:	1,043
2024 Projected Employment:	1,166
Growth Rate, 2014-2024:	11.8%
Annual Openings:	34

Industry	2014 Share	2024 Share
812 Personal and Laundry Services	48.4%	50.6%
Self-Employed Workers	17.5%	17.1%
453 Miscellaneous Store Retailers	15.8%	14.6%
115 Agriculture & Forestry Support Activity	n	n
5419 Other Professional & Technical Services	n	n
813 Membership Organizations & Associations	n	n

39-3011 Gaming Dealers



Operate table games. Stand or sit behind table and operate games of chance by dispensing the appropriate number of cards or blocks to players, or operating other gaming equipment. Distribute winnings or collect players' money or chips. May compare the house's hand against players' hands. *Examples: Blackjack Dealer; Craps Dealer; Poker Dealer; Roulette Dealer*

Training Category: High School | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	203
2024 Projected Employment:	221
Growth Rate, 2014-2024:	8.9%
Annual Openings:	7

Industry	2014 Share	2024 Share
713 Amusement, Gambling & Recreation Ind	95.6%	95.5%
Self-Employed Workers	4.4%	4.5%

39-3021 Motion Picture Projectionists



Set up and operate motion picture projection and related sound reproduction equipment.

Training Category: none | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
512	Motion Picture & Sound Recording Ind	n	n

39-3031 Ushers, Lobby Attendants, and Ticket Takers



Assist patrons at entertainment events by performing duties, such as collecting admission tickets and passes from patrons, assisting in finding seats, searching for lost articles, and locating such facilities as rest rooms and telephones. *Examples: Door Attendant; Ticket Collector*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 8.45
2014 Estimated Employment:	225
2024 Projected Employment:	240
Growth Rate, 2014-2024:	6.7%
Annual Openings:	16

Industry		2014 Share	2024 Share
512	Motion Picture & Sound Recording Ind	79.6%	78.3%
711	Performing Arts and Spectator Sports	7.6%	7.9%
713	Amusement, Gambling & Recreation Ind	7.1%	7.9%
487	Scenic and Sightseeing Transportation	n	n
531	Real Estate	n	n
6111	Elementary and Secondary Schools	n	n

39-3091 Amusement and Recreation Attendants



Perform variety of attending duties at amusement or recreation facility. May schedule use of recreation facilities, maintain and provide equipment to participants of sporting events or recreational pursuits, or operate amusement concessions and rides. *Examples: Arcade Attendant; Golf Course Starter*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 10.04
2014 Estimated Employment:	1,312
2024 Projected Employment:	1,458
Growth Rate, 2014-2024:	11.1%
Annual Openings:	70

Industry		2014 Share	2024 Share
713	Amusement, Gambling & Recreation Ind	69.5%	70.9%
711	Performing Arts and Spectator Sports	7.0%	6.9%
6113	Colleges and Universities	6.3%	5.9%
512	Motion Picture & Sound Recording Ind	3.7%	3.5%
	State Government, ex. Education and Hospitals	3.0%	2.9%
	Local Government, ex. Education	2.7%	2.7%

39-3092 Costume Attendants



Select, fit, and take care of costumes for cast members, and aid entertainers.

Training Category: High School | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
6113	Colleges and Universities	n	n

39-3093 Locker Room, Coatroom, and Dressing Room Attendants



Provide personal items to patrons or customers in locker rooms, dressing rooms, or coatrooms. *Examples: Bathhouse Attendant; Jockey Valet*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 9.69
2014 Estimated Employment:	49
2024 Projected Employment:	52
Growth Rate, 2014-2024:	6.1%
Annual Openings:	2

Industry	2014 Share	2024 Share
812 Personal and Laundry Services	40.8%	42.3%
622 Hospitals	24.5%	25.0%
721 Accommodation	20.4%	19.2%
452 General Merchandise Stores	n	n
6111 Elementary and Secondary Schools	n	n
713 Amusement, Gambling & Recreation Ind	n	n

39-3099 Entertainment Attendants and Related Workers, All Other



All entertainment attendants and related workers not listed separately.

Training Category: High School | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	107
2024 Projected Employment:	130
Growth Rate, 2014-2024:	21.5%
Annual Openings:	6

Industry	2014 Share	2024 Share
452 General Merchandise Stores	97.2%	97.7%
Self-Employed Workers	2.8%	2.3%

39-4011 Embalmers



Prepare bodies for interment in conformity with legal requirements.

Training Category: Postsecondary | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
812 Personal and Laundry Services	n	n

39-4021 Funeral Attendants



Perform variety of tasks during funeral, such as placing casket in parlor or chapel prior to service; arranging floral offerings or lights around casket; directing or escorting mourners; closing casket; and issuing and storing funeral equipment. *Examples: Mortician Helper; Pallbearer*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 17.53
2014 Estimated Employment:	80
2024 Projected Employment:	79
Growth Rate, 2014-2024:	-1.3%
Annual Openings:	2

Industry	2014 Share	2024 Share
812 Personal and Laundry Services	96.3%	96.2%
Self-Employed Workers	3.8%	3.8%

39-4031 Morticians, Undertakers, and Funeral Directors



Perform various tasks to arrange and direct funeral services, such as coordinating transportation of body to mortuary, interviewing family or other authorized person to arrange details, selecting pallbearers, aiding with the selection of officials for religious rites, and providing transportation for mourners.

Training Category: Associate | none | Long OJT

2015 Average Wage:	\$ 20.98
2014 Estimated Employment:	93
2024 Projected Employment:	99
Growth Rate, 2014-2024:	6.5%
Annual Openings:	3

Industry		2014 Share	2024 Share
812	Personal and Laundry Services	81.7%	81.8%
	Self-Employed Workers	17.2%	17.2%
	Federal Government, ex. Postal Service	1.1%	1.0%

39-5011 Barbers



Provide barbering services, such as cutting, trimming, shampooing, and styling hair, trimming beards, or giving shaves. *Examples: Barber Apprentice; Hair Cutter*

Training Category: Postsecondary | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	526
2024 Projected Employment:	583
Growth Rate, 2014-2024:	10.8%
Annual Openings:	16

Industry		2014 Share	2024 Share
	Self-Employed Workers	93.2%	93.3%
812	Personal and Laundry Services	6.8%	6.7%

39-5012 Hairdressers, Hairstylists, and Cosmetologists



Provide beauty services, such as shampooing, cutting, coloring, and styling hair, and massaging and treating scalp. May also apply makeup, dress wigs, perform hair removal, and provide nail and skin care services. *Examples: Beautician; Wig Stylist; Electrologist*

Training Category: Postsecondary | none | none

2015 Average Wage:	\$ 13.76
2014 Estimated Employment:	3,520
2024 Projected Employment:	3,864
Growth Rate, 2014-2024:	9.8%
Annual Openings:	125

Industry		2014 Share	2024 Share
812	Personal and Laundry Services	55.8%	55.9%
	Self-Employed Workers	39.7%	40.1%
452	General Merchandise Stores	1.9%	1.4%
721	Accommodation	1.0%	1.0%
446	Health and Personal Care Stores	0.7%	0.8%
623	Nursing and Residential Care Facilities	0.4%	0.5%

39-5092 Manicurists and Pedicurists



Clean and shape customers' fingernails and toenails. May polish or decorate nails. *Example: Fingernail Sculptor*

Training Category: Postsecondary | none | none

2015 Average Wage:	\$ 12.39
2014 Estimated Employment:	631
2024 Projected Employment:	696
Growth Rate, 2014-2024:	10.3%
Annual Openings:	11

Industry		2014 Share	2024 Share
812	Personal and Laundry Services	71.6%	71.4%
	Self-Employed Workers	27.9%	27.9%
621	Ambulatory Health Care Services	n	n
721	Accommodation	n	n

39-5093 Shampoos



Shampoo and rinse hair.

Training Category: none | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
	Self-Employed Workers	n	n
812	Personal and Laundry Services	n	n

39-5094 Skincare Specialists



Provide skin care treatments to face and body to enhance an individual's appearance. *Example: Facialist*

Training Category: Postsecondary | none | none

2015 Average Wage:	\$ 14.30
2014 Estimated Employment:	355
2024 Projected Employment:	403
Growth Rate, 2014-2024:	13.5%
Annual Openings:	8

Industry		2014 Share	2024 Share
812	Personal and Laundry Services	50.1%	48.6%
	Self-Employed Workers	27.9%	27.1%
621	Ambulatory Health Care Services	14.9%	16.6%
446	Health and Personal Care Stores	5.9%	6.5%
721	Accommodation	1.1%	1.2%

39-6011 Baggage Porters and Bellhops



Handle baggage for travelers at transportation terminals or for guests at hotels or similar establishments. *Examples: Baggage Handler; Lobby Porter; Skycap*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 11.09
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
721	Accommodation	n	n
488	Support Activities for Transportation	n	n

39-6012 Concierges



Assist patrons at hotel, apartment or office building with personal services. May take messages, arrange or give advice on transportation, business services or entertainment, or monitor guest requests for housekeeping and maintenance.

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 13.39
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
622	Hospitals	n	n
623	Nursing and Residential Care Facilities	n	n
721	Accommodation	n	n

39-7011 Tour Guides and Escorts



Escort individuals or groups on sightseeing tours or through places of interest, such as industrial establishments, public buildings, and art galleries. *Examples: Page; Sightseeing Guide*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 14.35
2014 Estimated Employment:	145
2024 Projected Employment:	161
Growth Rate, 2014-2024:	11.0%
Annual Openings:	8

Industry	2014 Share	2024 Share
712 Museums, Parks and Historical Sites	35.2%	33.5%
487 Scenic and Sightseeing Transportation	26.9%	31.1%
State Government, ex. Education and Hospitals	17.9%	16.8%
Self-Employed Workers	13.1%	12.4%
312 Beverage & Tobacco Product Manufacturing	n	n
6111 Elementary and Secondary Schools	n	n

39-9011 Childcare Workers



Attend to children at schools, businesses, private households, and child care institutions. Perform a variety of tasks, such as dressing, feeding, bathing, and overseeing play. *Examples: Baby Sitter; Governess; Nanny*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 10.67
2014 Estimated Employment:	4,201
2024 Projected Employment:	4,460
Growth Rate, 2014-2024:	6.2%
Annual Openings:	150

Industry	2014 Share	2024 Share
624 Social Assistance	39.7%	39.3%
Self-Employed Workers	24.9%	24.7%
623 Nursing and Residential Care Facilities	9.0%	9.8%
813 Membership Organizations & Associations	8.7%	8.6%
814 Private Households	6.5%	6.3%
713 Amusement, Gambling & Recreation Ind	4.9%	5.2%

39-9021 Personal Care Aides



Assist elderly or disabled adults with daily living activities at the person's home or in a daytime non-residential facility. Duties performed at a place of residence may include keeping house (making beds, doing laundry, washing dishes) and preparing meals. May provide meals and supervised activities at non-residential care facilities. May advise families, the elderly, and disabled on such things as nutrition, cleanliness, and household utilities. *Examples: Blind Escort; Caregiver; Geriatric Aide*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 11.22
2014 Estimated Employment:	5,535
2024 Projected Employment:	6,734
Growth Rate, 2014-2024:	21.7%
Annual Openings:	165

Industry	2014 Share	2024 Share
624 Social Assistance	51.6%	48.2%
623 Nursing and Residential Care Facilities	22.6%	25.0%
621 Ambulatory Health Care Services	8.9%	11.3%
813 Membership Organizations & Associations	5.9%	5.2%
Self-Employed Workers	3.5%	3.8%
551 Management of Companies and Enterprises	3.3%	2.8%

39-9031 Fitness Trainers and Aerobics Instructors



Instruct or coach groups or individuals in exercise activities and the fundamentals of sports. Demonstrate techniques and methods of participation. Observe participants and inform them of corrective measures necessary to improve their skills. *Examples: Exercise Teacher; Yoga Teacher*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 17.20
2014 Estimated Employment:	1,959
2024 Projected Employment:	2,176
Growth Rate, 2014-2024:	11.1%
Annual Openings:	58

Industry	2014 Share	2024 Share
713 Amusement, Gambling & Recreation Ind	54.0%	55.1%
State Government, ex. Education and Hospitals	12.7%	12.0%
Self-Employed Workers	9.6%	9.2%
813 Membership Organizations & Associations	8.2%	7.5%
6116 Other Schools and Instruction	7.9%	8.5%
6113 Colleges and Universities	2.3%	2.2%

39-9032 Recreation Workers



Conduct recreation activities with groups in public, private, or volunteer agencies or recreation facilities. Organize and promote activities, such as arts and crafts, sports, games, music, dramatics, social recreation, camping, and hobbies, taking into account the needs and interests of individual members. *Examples: Playground Director; Activities Director*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 13.30
2014 Estimated Employment:	1,939
2024 Projected Employment:	2,161
Growth Rate, 2014-2024:	11.4%
Annual Openings:	58

Industry	2014 Share	2024 Share
Local Government, ex. Education	29.7%	28.2%
623 Nursing and Residential Care Facilities	17.0%	19.2%
813 Membership Organizations & Associations	14.0%	13.0%
713 Amusement, Gambling & Recreation Ind	10.6%	11.7%
624 Social Assistance	8.2%	7.8%
Self-Employed Workers	6.1%	5.8%

39-9041 Residential Advisors



Coordinate activities for residents of boarding schools, college fraternities or sororities, college dormitories, or similar establishments. Order supplies and determine need for maintenance, repairs, and furnishings. May maintain household records and assign rooms. May refer residents to counseling resources if needed. *Examples: Dormitory Supervisor; House Parent*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 14.80
2014 Estimated Employment:	332
2024 Projected Employment:	360
Growth Rate, 2014-2024:	8.4%
Annual Openings:	13

Industry	2014 Share	2024 Share
624 Social Assistance	27.7%	26.4%
6113 Colleges and Universities	25.6%	25.0%
623 Nursing and Residential Care Facilities	25.6%	29.2%
6111 Elementary and Secondary Schools	19.3%	17.8%
6112 Junior Colleges	n	n
721 Accommodation	n	n

39-9099 Personal Care and Service Workers, All Other



All personal care and service workers not listed separately. *Examples: Shoe Shiner; Chaperone; Servant*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 9.70
2014 Estimated Employment:	394
2024 Projected Employment:	411
Growth Rate, 2014-2024:	4.3%
Annual Openings:	11

Industry	2014 Share	2024 Share
812 Personal and Laundry Services	56.9%	54.7%
Self-Employed Workers	27.2%	28.7%
452 General Merchandise Stores	n	n
622 Hospitals	n	n
623 Nursing and Residential Care Facilities	n	n
721 Accommodation	n	n

41-1011 First-Line Supervisors of Retail Sales Workers



Directly supervise sales workers in a retail establishment or department. Duties may include management functions, such as purchasing, budgeting, accounting, and personnel work, in addition to supervisory duties. *Examples: Department Manager; Flower Shop Manager; Supervisor of Cashiers*

Training Category: High School | < 5 yrs | none

2015 Average Wage:	\$ 22.70
2014 Estimated Employment:	9,184
2024 Projected Employment:	9,565
Growth Rate, 2014-2024:	4.2%
Annual Openings:	243

Industry	2014 Share	2024 Share
Self-Employed Workers	20.5%	20.1%
452 General Merchandise Stores	15.2%	16.5%
448 Clothing and Clothing Accessories Stores	9.1%	7.9%
445 Food and Beverage Stores	8.8%	9.3%
444 Building Material & Garden Supply Stores	8.8%	8.8%
441 Motor Vehicle and Parts Dealers	6.4%	6.4%

41-1012 First-Line Supervisors of Non-Retail Sales Workers



Directly supervise and coordinate activities of sales workers other than retail sales workers. May perform duties, such as budgeting, accounting, and personnel work, in addition to supervisory duties. *Examples: District Sales Manager; Dry Cleaning Manager; Blood-Donor Recruiter Supervisor*

Training Category: High School | < 5 yrs | none

2015 Average Wage:	\$ 50.58
2014 Estimated Employment:	2,415
2024 Projected Employment:	2,566
Growth Rate, 2014-2024:	6.3%
Annual Openings:	43

Industry	2014 Share	2024 Share
Self-Employed Workers	38.5%	38.0%
425 Electronic Markets and Agents/Brokers	12.1%	12.9%
423 Merchant Wholesalers, Durable Goods	10.2%	10.1%
424 Merchant Wholesalers, Nondurable Goods	7.4%	7.2%
334 Computer and Electronic Product Mfg	3.4%	3.0%
523 Financial Investment and Related Activities	n	n

41-2011 Cashiers



Receive and disburse money in establishments other than financial institutions. Usually involves use of electronic scanners, cash registers, or related equipment. Often involved in processing credit or debit card transactions and validating checks. *Examples: Auction Clerk; Disbursement Clerk*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 9.86
2014 Estimated Employment:	21,788
2024 Projected Employment:	22,304
Growth Rate, 2014-2024:	2.4%
Annual Openings:	979

Industry	2014 Share	2024 Share
445 Food and Beverage Stores	36.6%	37.8%
447 Gasoline Stations	13.4%	13.3%
452 General Merchandise Stores	11.7%	11.9%
State Government, ex. Education and Hospitals	5.8%	5.7%
446 Health and Personal Care Stores	5.5%	5.2%
722 Food Services and Drinking Places	5.5%	5.6%

41-2021 Counter and Rental Clerks



Receive orders for repairs, rentals, and services. May describe available options, compute cost, and accept payment. *Examples: Airplane-Charter Clerk; Car Rental Agent; Skate Shop Attendant*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 14.99
2014 Estimated Employment:	2,079
2024 Projected Employment:	2,209
Growth Rate, 2014-2024:	6.3%
Annual Openings:	65

Industry	2014 Share	2024 Share
532 Rental and Leasing Services	21.8%	21.9%
441 Motor Vehicle and Parts Dealers	19.9%	19.8%
811 Repair and Maintenance	17.6%	18.1%
531 Real Estate	11.7%	11.9%
812 Personal and Laundry Services	7.3%	6.8%
713 Amusement, Gambling & Recreation Ind	6.6%	7.0%

41-2022 Parts Salespersons



Sell spare and replacement parts and equipment in repair shop or parts store. *Examples: Parts Clerk; Auto Parts Salesperson; Electronic Parts Salesperson*

Training Category: none | none | Moderate OJT

2015 Average Wage:	\$ 14.91
2014 Estimated Employment:	1,472
2024 Projected Employment:	1,529
Growth Rate, 2014-2024:	3.9%
Annual Openings:	39

Industry	2014 Share	2024 Share
441 Motor Vehicle and Parts Dealers	80.6%	80.3%
423 Merchant Wholesalers, Durable Goods	11.3%	11.5%
811 Repair and Maintenance	2.2%	2.2%
Self-Employed Workers	0.5%	0.5%
425 Electronic Markets and Agents/Brokers	n	n
444 Building Material & Garden Supply Stores	n	n

41-2031 Retail Salespersons



Sell merchandise, such as furniture, motor vehicles, appliances, or apparel in a retail establishment. *Examples: Car Dealer; Haberdasher; Wallpaper Salesperson*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 12.65
2014 Estimated Employment:	27,320
2024 Projected Employment:	29,054
Growth Rate, 2014-2024:	6.4%
Annual Openings:	1,120

Industry	2014 Share	2024 Share
452 General Merchandise Stores	18.2%	17.8%
448 Clothing and Clothing Accessories Stores	16.5%	14.7%
444 Building Material & Garden Supply Stores	12.9%	13.2%
451 Sporting Goods/Hobby/Book/Music Stores	10.1%	11.2%
443 Electronics and Appliance Stores	8.1%	8.4%
453 Miscellaneous Store Retailers	8.0%	7.6%

41-3011 Advertising Sales Agents



Sell or solicit advertising, including graphic art, advertising space in publications, custom made signs, or TV and radio advertising time. May obtain leases for outdoor advertising sites or persuade retailer to use sales promotion display items. *Examples: Radio Time Salesperson; Yellow Pages Salesperson; Leasing Agent Outdoor Advertising*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 35.41
2014 Estimated Employment:	604
2024 Projected Employment:	555
Growth Rate, 2014-2024:	-8.1%
Annual Openings:	18

Industry	2014 Share	2024 Share
511 Publishing Industries	46.0%	38.9%
5418 Advertising and Related Services	21.7%	25.8%
515 Broadcasting (except Internet)	10.3%	12.1%
517 Telecommunications	9.1%	8.5%
Self-Employed Workers	7.1%	7.8%
519 Other Information Services	n	n

41-3021 Insurance Sales Agents



Sell life, property, casualty, health, automotive, or other types of insurance. May refer clients to independent brokers, work as independent broker, or be employed by an insurance company. *Examples: Insurance Broker; Insurance Solicitor; Pension Agent*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 29.92
2014 Estimated Employment:	2,544
2024 Projected Employment:	2,756
Growth Rate, 2014-2024:	8.3%
Annual Openings:	88

Industry	2014 Share	2024 Share
524 Insurance Carriers & Related Activities	86.4%	86.5%
Self-Employed Workers	12.8%	12.7%
523 Financial Investment and Related Activities	n	n

41-3031 Securities, Commodities, and Financial Services Sales Agents



Buy and sell securities in investment and trading firms, or call upon businesses and individuals to sell financial services. Provide financial services, such as loan, tax, and securities counseling. May advise securities customers about such things as stocks, bonds, and market conditions. *Examples: Investment Banker; Stock Trader*

Training Category: Bachelor | none | Moderate OJT

2015 Average Wage:	\$ 72.00
2014 Estimated Employment:	1,698
2024 Projected Employment:	1,908
Growth Rate, 2014-2024:	12.4%
Annual Openings:	50

Industry	2014 Share	2024 Share
522 Credit Intermediation & Related Activity	13.7%	13.3%
Self-Employed Workers	6.2%	6.5%
518 ISPs, Search Portals, & Data Processing	n	n
523 Financial Investment and Related Activities	n	n
524 Insurance Carriers & Related Activities	n	n
551 Management of Companies and Enterprises	n	n

41-3041 Travel Agents 

Plan and sell transportation and accommodations for travel agency customers. Determine destination, modes of transportation, travel dates, costs, and accommodations required. *Examples: Travel Consultant; Travel Counselor*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 22.32
2014 Estimated Employment:	386
2024 Projected Employment:	370
Growth Rate, 2014-2024:	-4.2%
Annual Openings:	6

Industry	2014 Share	2024 Share
5615 Travel Arrangement & Reservation Service	89.4%	90.3%
Self-Employed Workers	10.6%	9.7%

41-3099 Sales Representatives, Services, All Other 

All services sales representatives not listed separately. *Examples: Data Processing Sales Rep; Telecommunications Consultant*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 37.16
2014 Estimated Employment:	3,227
2024 Projected Employment:	3,585
Growth Rate, 2014-2024:	11.1%
Annual Openings:	105

Industry	2014 Share	2024 Share
238 Specialty Trade Contractors	6.9%	6.7%
522 Credit Intermediation & Related Activity	6.4%	6.4%
517 Telecommunications	4.8%	4.1%
721 Accommodation	4.6%	4.6%
5416 Management & Technical Consulting Svc	4.5%	5.5%
5412 Accounting and Bookkeeping Services	n	n

41-4011 Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products 

Sell goods for wholesalers or manufacturers where technical or scientific knowledge is required in such areas as biology, engineering, chemistry, and electronics, normally obtained from at least 2 years of post-secondary education. *Examples: Electronics Sales Representative; Oilfield Equipment Sales Representative; Pharmaceutical Representative*

Training Category: Bachelor | none | Moderate OJT

2015 Average Wage:	\$ 47.38
2014 Estimated Employment:	3,213
2024 Projected Employment:	3,465
Growth Rate, 2014-2024:	7.8%
Annual Openings:	91

Industry	2014 Share	2024 Share
425 Electronic Markets and Agents/Brokers	29.2%	30.7%
423 Merchant Wholesalers, Durable Goods	16.4%	15.4%
334 Computer and Electronic Product Mfg	9.4%	8.4%
454 Nonstore Retailers	n	n
511 Publishing Industries	n	n
5415 Computer Systems Design and Rel Services	n	n

41-4012 Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products 

Sell goods for wholesalers or manufacturers to businesses or groups of individuals. Work requires substantial knowledge of items sold. *Examples: Diamond Broker; Oil Distributor; Wool Merchant*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 36.32
2014 Estimated Employment:	6,830
2024 Projected Employment:	7,356
Growth Rate, 2014-2024:	7.7%
Annual Openings:	193

Industry	2014 Share	2024 Share
425 Electronic Markets and Agents/Brokers	37.7%	39.6%
423 Merchant Wholesalers, Durable Goods	21.4%	20.8%
424 Merchant Wholesalers, Nondurable Goods	13.3%	12.6%
444 Building Material & Garden Supply Stores	3.1%	3.0%
Self-Employed Workers	2.3%	2.2%
238 Specialty Trade Contractors	1.8%	1.8%

41-9011 Demonstrators and Product Promoters



Demonstrate merchandise and answer questions for the purpose of creating public interest in buying the product. May sell demonstrated merchandise. *Examples: Home Demonstrator; Exhibit-Display Representative*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 12.47
2014 Estimated Employment:	130
2024 Projected Employment:	144
Growth Rate, 2014-2024:	10.8%
Annual Openings:	5

Industry	2014 Share	2024 Share
Self-Employed Workers	8.5%	7.6%
424 Merchant Wholesalers, Nondurable Goods	n	n
446 Health and Personal Care Stores	n	n
452 General Merchandise Stores	n	n
5418 Advertising and Related Services	n	n
5611 Office Administrative Services	n	n

41-9012 Models



Model garments and other apparel to display clothing before prospective buyers at fashion shows, private showings, retail establishments, or photographer. May pose for photos to be used for advertising purposes. May pose as subject for paintings, sculptures, and other types of artistic expression.

Training Category: none | none | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
454 Nonstore Retailers	n	n
6113 Colleges and Universities	n	n

41-9021 Real Estate Brokers



Operate real estate office, or work for commercial real estate firm, overseeing real estate transactions. Other duties usually include selling real estate or renting properties and arranging loans.

Training Category: High School | < 5 yrs | none

2015 Average Wage:	\$ 63.75
2014 Estimated Employment:	317
2024 Projected Employment:	323
Growth Rate, 2014-2024:	1.9%
Annual Openings:	3

Industry	2014 Share	2024 Share
Self-Employed Workers	50.2%	51.7%
531 Real Estate	49.2%	47.4%
551 Management of Companies and Enterprises	n	n
713 Amusement, Gambling & Recreation Ind	n	n

41-9022 Real Estate Sales Agents



Rent, buy, or sell property for clients. Perform duties, such as study property listings, interview prospective clients, accompany clients to property site, discuss conditions of sale, and draw up real estate contracts. Include agents who represent buyer. *Examples: Apartment Rental Agent; Land Agent; Right of Way Agent*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 20.75
2014 Estimated Employment:	332
2024 Projected Employment:	341
Growth Rate, 2014-2024:	2.7%
Annual Openings:	3

Industry	2014 Share	2024 Share
Self-Employed Workers	49.7%	50.7%
531 Real Estate	43.1%	42.5%
221 Utilities	n	n
236 Construction of Buildings	n	n
237 Heavy and Civil Engineering Construction	n	n
551 Management of Companies and Enterprises	n	n

41-9031 Sales Engineers



Sell business goods or services, the selling of which requires a technical background equivalent to a baccalaureate degree in engineering. *Examples: Aeronautical Products Sales Engineer; Industrial Machinery Sales Engineer; Nuclear Equipment Sales Engineer*

Training Category: Bachelor | none | Moderate OJT

2015 Average Wage:	\$ 58.36
2014 Estimated Employment:	517
2024 Projected Employment:	548
Growth Rate, 2014-2024:	6.0%
Annual Openings:	16

Industry	2014 Share	2024 Share
425 Electronic Markets and Agents/Brokers	30.6%	32.7%
423 Merchant Wholesalers, Durable Goods	22.8%	21.7%
334 Computer and Electronic Product Mfg	11.6%	10.6%
5415 Computer Systems Design and Rel Services	10.3%	11.5%
333 Machinery Manufacturing	9.7%	8.9%
517 Telecommunications	n	n

41-9041 Telemarketers



Solicit orders for goods or services over the telephone. *Examples: Telephone Salesperson; Telephone Solicitor*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 14.76
2014 Estimated Employment:	661
2024 Projected Employment:	686
Growth Rate, 2014-2024:	3.8%
Annual Openings:	14

Industry	2014 Share	2024 Share
5614 Business Support Services	30.7%	35.6%
441 Motor Vehicle and Parts Dealers	4.7%	4.1%
238 Specialty Trade Contractors	n	n
524 Insurance Carriers & Related Activities	n	n
5416 Management & Technical Consulting Svc	n	n
5613 Employment Services	n	n

41-9091 Door-to-Door Sales Workers, News and Street Vendors, and Related Workers



Sell goods or services door-to-door or on the street. *Examples: Newspaper Carrier; Peddler*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 10.83
2014 Estimated Employment:	528
2024 Projected Employment:	511
Growth Rate, 2014-2024:	-3.2%
Annual Openings:	4

Industry	2014 Share	2024 Share
Self-Employed Workers	89.2%	92.8%
454 Nonstore Retailers	n	n
511 Publishing Industries	n	n
517 Telecommunications	n	n

41-9099 Sales and Related Workers, All Other



All sales and related workers not listed separately. *Examples: Bridal Consultant; Fund Raiser; Auctioneer*

Training Category: High School | none | none

2015 Average Wage:	\$ 19.35
2014 Estimated Employment:	838
2024 Projected Employment:	928
Growth Rate, 2014-2024:	10.7%
Annual Openings:	21

Industry	2014 Share	2024 Share
Self-Employed Workers	10.9%	10.5%
452 General Merchandise Stores	8.7%	9.1%
5416 Management & Technical Consulting Svc	8.4%	10.2%
425 Electronic Markets and Agents/Brokers	6.4%	6.6%
5619 Other Support Services	6.0%	5.8%
522 Credit Intermediation & Related Activity	n	n

43-1011 First-Line Supervisors of Office and Administrative Support Workers 

Supervise and coordinate the activities of clerical and administrative support workers. *Examples: Claims Supervisor; Stock Room Manager; Teller Supervisor*

Training Category: High School | < 5 yrs | none

2015 Average Wage:	\$ 26.28
2014 Estimated Employment:	6,905
2024 Projected Employment:	7,532
Growth Rate, 2014-2024:	9.1%
Annual Openings:	167

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	9.8%	11.3%
522 Credit Intermediation & Related Activity	8.2%	7.9%
524 Insurance Carriers & Related Activities	7.1%	6.8%
445 Food and Beverage Stores	6.2%	6.2%
452 General Merchandise Stores	6.1%	6.3%
622 Hospitals	3.8%	3.7%

43-2011 Switchboard Operators, Including Answering Service 

Operate telephone business systems equipment or switchboards to relay incoming, outgoing, and interoffice calls. May supply information to callers and record messages. *Examples: Communication Center Operator; Exchange Operator; Telephone Answering Service Operator*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 14.28
2014 Estimated Employment:	489
2024 Projected Employment:	335
Growth Rate, 2014-2024:	-31.5%
Annual Openings:	6

Industry	2014 Share	2024 Share
622 Hospitals	33.5%	31.0%
5614 Business Support Services	12.1%	15.8%
621 Ambulatory Health Care Services	9.6%	10.5%
721 Accommodation	8.2%	7.5%
441 Motor Vehicle and Parts Dealers	n	n
531 Real Estate	n	n

43-2021 Telephone Operators 

Provide information by accessing alphabetical and geographical directories. Assist customers with special billing requests, such as charges to a third party and credits or refunds for incorrectly dialed numbers or bad connections. May handle emergency calls and assist children or people with physical disabilities to make telephone calls. *Examples: Long Distance Operator; Routing Operator*

Training Category: High School | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
6113 Colleges and Universities	n	n

43-2099 Communications Equipment Operators, All Other 

All communications equipment operators not listed separately.

Training Category: High School | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
622 Hospitals	n	n
Federal Government, ex. Postal Service	n	n

43-3011 Bill and Account Collectors



Locate and notify customers of delinquent accounts by mail, telephone, or personal visit to solicit payment. Duties include receiving payment and posting amount to customer's account; preparing statements to credit department if customer fails to respond; initiating repossession proceedings or service disconnection; keeping records of collection and status of accounts. *Examples: Payment Collector; Collection Clerk; Installment Agent*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 16.28
2014 Estimated Employment:	1,467
2024 Projected Employment:	1,499
Growth Rate, 2014-2024:	2.2%
Annual Openings:	39

Industry	2014 Share	2024 Share
5614 Business Support Services	53.9%	55.2%
621 Ambulatory Health Care Services	10.2%	11.3%
551 Management of Companies and Enterprises	4.1%	3.7%
522 Credit Intermediation & Related Activity	3.6%	3.4%
5412 Accounting and Bookkeeping Services	3.5%	3.3%
5411 Legal Services	n	n

43-3021 Billing and Posting Clerks



Compile, compute, and record billing, accounting, statistical, and other numerical data for billing purposes. Prepare billing invoices for services rendered or for delivery or shipment of goods. *Examples: Calculating Machine Operator; Invoice Control Clerk; Rating Clerk*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 17.92
2014 Estimated Employment:	1,844
2024 Projected Employment:	2,078
Growth Rate, 2014-2024:	12.7%
Annual Openings:	61

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	32.5%	35.9%
622 Hospitals	16.6%	15.5%
5611 Office Administrative Services	7.7%	8.0%
5412 Accounting and Bookkeeping Services	7.4%	6.7%
551 Management of Companies and Enterprises	4.8%	4.4%
Local Government, ex. Education	3.2%	3.0%

43-3031 Bookkeeping, Accounting, and Auditing Clerks



Compute, classify, and record numerical data to keep financial records complete. Perform any combination of routine calculating, posting, and verifying duties to obtain primary financial data for use in maintaining accounting records. May also check the accuracy of figures, calculations, and postings pertaining to business transactions recorded by other workers. *Examples: Accounts Receivable Clerk; Ledger Clerk; Voucher Examiner*

Training Category: Some College | none | Moderate OJT

2015 Average Wage:	\$ 19.02
2014 Estimated Employment:	8,071
2024 Projected Employment:	7,449
Growth Rate, 2014-2024:	-7.7%
Annual Openings:	79

Industry	2014 Share	2024 Share
5412 Accounting and Bookkeeping Services	4.8%	4.5%
551 Management of Companies and Enterprises	4.8%	4.7%
Self-Employed Workers	4.5%	5.1%
813 Membership Organizations & Associations	4.3%	4.1%
524 Insurance Carriers & Related Activities	4.2%	4.1%
621 Ambulatory Health Care Services	4.1%	4.7%

43-3041 Gaming Cage Workers



In a gaming establishment, conduct financial transactions for patrons. May reconcile daily summaries of transactions to balance books. Accept patron's credit application and verify credit references to provide check-cashing authorization or to establish house credit accounts *Example: Cage Cashier*

Training Category: High School | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
713 Amusement, Gambling & Recreation Ind	n	n

43-3051 Payroll and Timekeeping Clerks



Compile and post employee time and payroll data. May compute employees' time worked, production, and commission. May compute and post wages and deductions. May prepare paychecks. *Examples: Attendance Clerk; Payroll Bookkeeper; Timekeeper*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 20.99
2014 Estimated Employment:	766
2024 Projected Employment:	743
Growth Rate, 2014-2024:	-3.0%
Annual Openings:	20

Industry		2014 Share	2024 Share
524	Insurance Carriers & Related Activities	11.4%	11.2%
	Local Government, ex. Education	6.4%	6.2%
551	Management of Companies and Enterprises	6.3%	6.1%
5412	Accounting and Bookkeeping Services	n	n
5611	Office Administrative Services	n	n

43-3061 Procurement Clerks



Compile information and records to draw up purchase orders for procurement of materials and services. *Examples: Property and Supply Officer; Purchasing Clerk*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 17.77
2014 Estimated Employment:	467
2024 Projected Employment:	446
Growth Rate, 2014-2024:	-4.5%
Annual Openings:	16

Industry		2014 Share	2024 Share
493	Warehousing and Storage	27.2%	26.9%
423	Merchant Wholesalers, Durable Goods	7.7%	7.6%
334	Computer and Electronic Product Mfg	7.3%	6.7%
333	Machinery Manufacturing	6.0%	5.6%
332	Fabricated Metal Product Manufacturing	5.8%	5.6%
622	Hospitals	5.4%	5.4%

43-3071 Tellers



Receive and pay out money. Keep records of money and negotiable instruments involved in a financial institution's various transactions. *Examples: Foreign Exchange Clerk; Money Order Clerk; Securities Teller*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 13.50
2014 Estimated Employment:	2,011
2024 Projected Employment:	1,907
Growth Rate, 2014-2024:	-5.2%
Annual Openings:	79

Industry		2014 Share	2024 Share
522	Credit Intermediation & Related Activity	99.2%	99.0%
524	Insurance Carriers & Related Activities	n	n
551	Management of Companies and Enterprises	n	n
5614	Business Support Services	n	n

43-3099 Financial Clerks, All Other



All financial clerks not listed separately. *Examples: Bank Vault Attendant; Safety Deposit Clerk*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 17.28
2014 Estimated Employment:	414
2024 Projected Employment:	457
Growth Rate, 2014-2024:	10.4%
Annual Openings:	15

Industry		2014 Share	2024 Share
522	Credit Intermediation & Related Activity	22.5%	22.5%
551	Management of Companies and Enterprises	11.8%	11.2%
	Local Government, ex. Education	7.5%	7.0%
622	Hospitals	5.6%	5.5%
523	Financial Investment and Related Activities	n	n
6111	Elementary and Secondary Schools	n	n

43-4011 Brokerage Clerks



Perform clerical duties involving the purchase or sale of securities. Duties include writing orders for stock purchases and sales, computing transfer taxes, verifying stock transactions, accepting and delivering securities, tracking stock price fluctuations, computing equity, distributing dividends, and keeping records of daily transactions and holdings. *Examples: Portfolio Assistant; Dividend Clerk; Telephone Quotation Clerk*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 25.25
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
522 Credit Intermediation & Related Activity	n	n
523 Financial Investment and Related Activities	n	n
524 Insurance Carriers & Related Activities	n	n
551 Management of Companies and Enterprises	n	n

43-4021 Correspondence Clerks



Compose letters in reply to requests for merchandise, damage claims, credit and other information, delinquent accounts, incorrect billings, or unsatisfactory services. Duties may include gathering data to formulate reply and typing correspondence. *Examples: Collection Correspondent; Fan Mail Editor*

Training Category: High School | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	25
2024 Projected Employment:	23
Growth Rate, 2014-2024:	-8.0%
Annual Openings:	1

Industry	2014 Share	2024 Share
524 Insurance Carriers & Related Activities	n	n
5614 Business Support Services	n	n
6111 Elementary and Secondary Schools	n	n
622 Hospitals	n	n
Local Government, ex. Education	n	n

43-4031 Court, Municipal, and License Clerks



Perform clerical duties in courts of law, municipalities, and governmental licensing agencies and bureaus. May prepare docket of cases to be called; secure information for judges and court; prepare draft agendas or bylaws for town or city council; answer official correspondence; keep fiscal records and accounts; issue licenses or permits; record data, administer tests, or collect fees. *Examples: Circuit Court Clerk; Warrant Clerk*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 18.25
2014 Estimated Employment:	456
2024 Projected Employment:	481
Growth Rate, 2014-2024:	5.5%
Annual Openings:	5

Industry	2014 Share	2024 Share
Local Government, ex. Education	78.7%	79.0%
State Government, ex. Education and Hospitals	18.2%	18.1%
Self-Employed Workers	3.1%	2.9%

43-4041 Credit Authorizers, Checkers, and Clerks



Authorize credit charges against customers' accounts. Investigate history and credit standing of individuals or business establishments applying for credit. May interview applicants to obtain personal and financial data; determine credit worthiness; process applications; and notify customers of acceptance or rejection of credit. *Examples: Credit Interviewer; Credit Rating Inspector*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 18.74
2014 Estimated Employment:	149
2024 Projected Employment:	149
Growth Rate, 2014-2024:	0.0%
Annual Openings:	1

Industry	2014 Share	2024 Share
522 Credit Intermediation & Related Activity	30.9%	29.5%
454 Nonstore Retailers	14.1%	15.4%
5614 Business Support Services	8.1%	9.4%
424 Merchant Wholesalers, Nondurable Goods	n	n
444 Building Material & Garden Supply Stores	n	n
518 ISPs, Search Portals, & Data Processing	n	n

43-4051 Customer Service Representatives



Interact with customers to provide information in response to inquiries about products and services and to handle and resolve complaints. *Examples: Complaint Adjuster; Passenger Relations Representative; Telephone Service Adviser*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 17.64
2014 Estimated Employment:	9,100
2024 Projected Employment:	9,995
Growth Rate, 2014-2024:	9.8%
Annual Openings:	314

Industry	2014 Share	2024 Share
524 Insurance Carriers & Related Activities	16.1%	15.6%
517 Telecommunications	8.9%	7.5%
5614 Business Support Services	6.3%	9.3%
454 Nonstore Retailers	5.1%	5.7%
425 Electronic Markets and Agents/Brokers	3.8%	3.9%
511 Publishing Industries	3.8%	3.1%

43-4061 Eligibility Interviewers, Government Programs



Determine eligibility of persons applying to receive assistance from government programs and agency resources, such as welfare, unemployment benefits, social security, and public housing. *Examples: Unemployment Benefits Claims Taker; County Service Officer; Welfare Interviewer*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 19.12
2014 Estimated Employment:	423
2024 Projected Employment:	445
Growth Rate, 2014-2024:	5.2%
Annual Openings:	7

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	52.5%	52.6%
Local Government, ex. Education	35.5%	35.7%
624 Social Assistance	4.5%	4.5%
Federal Government, ex. Postal Service	4.3%	3.8%
5613 Employment Services	1.4%	1.6%

43-4071 File Clerks



File correspondence, cards, invoices, receipts, and other records in alphabetical or numerical order or according to the filing system used. Locate and remove material from file when requested. *Examples: Computer Tape Librarian; Document Clerk; Records Custodian*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 12.21
2014 Estimated Employment:	530
2024 Projected Employment:	496
Growth Rate, 2014-2024:	-6.4%
Annual Openings:	11

Industry	2014 Share	2024 Share
5613 Employment Services	15.5%	17.3%
524 Insurance Carriers & Related Activities	11.3%	10.5%
622 Hospitals	10.2%	9.7%
Local Government, ex. Education	8.3%	7.9%
621 Ambulatory Health Care Services	7.2%	8.1%
522 Credit Intermediation & Related Activity	5.5%	5.4%

43-4081 Hotel, Motel, and Resort Desk Clerks



Accommodate hotel, motel, and resort patrons by registering and assigning rooms to guests, issuing room keys, transmitting and receiving messages, keeping records of occupied rooms and guests' accounts, making and confirming reservations, and presenting statements to and collecting payments from departing guests. *Examples: Register Clerk; Room Clerk*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 11.17
2014 Estimated Employment:	1,224
2024 Projected Employment:	1,342
Growth Rate, 2014-2024:	9.6%
Annual Openings:	75

Industry	2014 Share	2024 Share
721 Accommodation	97.2%	97.3%
531 Real Estate	0.9%	0.9%
813 Membership Organizations & Associations	0.8%	0.8%
551 Management of Companies and Enterprises	n	n
713 Amusement, Gambling & Recreation Ind	n	n

43-4111 Interviewers, Except Eligibility and Loan



Interview persons by telephone, mail, in person, or by other means for the purpose of completing forms, applications, or questionnaires. Ask specific questions, record answers, and assist persons with completing form. May sort, classify, and file forms. *Examples: Census Taker; Market Research Interviewer; Out-patient Admitting Clerk*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 15.89
2014 Estimated Employment:	1,215
2024 Projected Employment:	1,278
Growth Rate, 2014-2024:	5.2%
Annual Openings:	34

Industry	2014 Share	2024 Share
622 Hospitals	43.2%	41.1%
6113 Colleges and Universities	14.8%	14.4%
621 Ambulatory Health Care Services	14.4%	16.9%
5611 Office Administrative Services	5.1%	5.3%
5419 Other Professional & Technical Services	3.8%	3.6%
5412 Accounting and Bookkeeping Services	n	n

43-4121 Library Assistants, Clerical



Compile records, sort and shelve books, and issue and receive library materials such as pictures, cards, slides and microfilm. Locate library materials for loan and replace material in shelving area, stacks, or files according to identification number and title. Register patrons to permit them to borrow books, periodicals, and other library materials. *Examples: Braille and Talking Books Clerk; Microfilm Clerk*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 12.52
2014 Estimated Employment:	881
2024 Projected Employment:	916
Growth Rate, 2014-2024:	4.0%
Annual Openings:	31

Industry	2014 Share	2024 Share
Local Government, ex. Education	67.8%	69.0%
6111 Elementary and Secondary Schools	15.9%	15.1%
6113 Colleges and Universities	7.2%	7.2%
519 Other Information Services	5.2%	4.7%
State Government, ex. Education and Hospitals	1.0%	1.1%
6112 Junior Colleges	n	n

43-4131 Loan Interviewers and Clerks



Interview loan applicants to elicit information; investigate applicants' backgrounds and verify references; prepare loan request papers; and forward findings, reports, and documents to appraisal department. Review loan papers to ensure completeness, and complete transactions between loan establishment, borrowers, and sellers upon approval of loan. *Examples: Loan Closer; Loan Processor*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 17.46
2014 Estimated Employment:	775
2024 Projected Employment:	860
Growth Rate, 2014-2024:	11.0%
Annual Openings:	20

Industry	2014 Share	2024 Share
522 Credit Intermediation & Related Activity	70.8%	71.3%
5411 Legal Services	10.2%	8.8%
551 Management of Companies and Enterprises	7.5%	7.1%
5614 Business Support Services	4.4%	5.5%
441 Motor Vehicle and Parts Dealers	3.7%	3.6%
5613 Employment Services	1.9%	2.2%

43-4141 New Accounts Clerks



Interview persons desiring to open bank accounts. Explain banking services available to prospective customers and assist them in preparing application form. *Example: Banking Services Clerk*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 16.14
2014 Estimated Employment:	458
2024 Projected Employment:	428
Growth Rate, 2014-2024:	-6.6%
Annual Openings:	11

Industry	2014 Share	2024 Share
522 Credit Intermediation & Related Activity	99.1%	99.1%
551 Management of Companies and Enterprises	0.9%	0.9%

43-4151 Order Clerks



Receive and process incoming orders for materials, merchandise, classified ads, or services such as repairs, installations, or rental of facilities. Duties include informing customers of receipt, prices, shipping dates, and delays; preparing contracts; and handling complaints. *Examples: Catalogue Clerk; Subscription Clerk; Classified Advertisement Clerk*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 16.60
2014 Estimated Employment:	940
2024 Projected Employment:	968
Growth Rate, 2014-2024:	3.0%
Annual Openings:	29

Industry	2014 Share	2024 Share
454 Nonstore Retailers	37.6%	43.3%
423 Merchant Wholesalers, Durable Goods	10.0%	9.2%
425 Electronic Markets and Agents/Brokers	8.1%	8.0%
444 Building Material & Garden Supply Stores	6.8%	6.2%
424 Merchant Wholesalers, Nondurable Goods	4.8%	4.2%
452 General Merchandise Stores	3.4%	3.3%

43-4161 Human Resources Assistants, Except Payroll and Timekeeping



Compile and keep personnel records. Record data for each employee, such as address, weekly earnings, absences, amount of sales or production, supervisory reports on ability, and date of and reason for termination. Compile and type reports from employment records. File employment records. Search employee files and furnish information to authorized persons.

Training Category: Associate | none | none

2015 Average Wage:	\$ 17.95
2014 Estimated Employment:	546
2024 Projected Employment:	531
Growth Rate, 2014-2024:	-2.8%
Annual Openings:	6

Industry	2014 Share	2024 Share
452 General Merchandise Stores	11.5%	10.7%
622 Hospitals	8.4%	8.1%
5613 Employment Services	8.2%	9.0%
551 Management of Companies and Enterprises	6.4%	6.4%
6113 Colleges and Universities	5.5%	5.3%
621 Ambulatory Health Care Services	5.1%	6.4%

43-4171 Receptionists and Information Clerks



Answer inquiries and obtain information for general public, customers, visitors, and other interested parties. Provide information regarding activities conducted at establishment; location of departments, offices, and employees within organization. *Examples: Appointment Clerk; Front Desk Clerk; Referral and Information Aide*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 13.64
2014 Estimated Employment:	5,270
2024 Projected Employment:	5,648
Growth Rate, 2014-2024:	7.2%
Annual Openings:	180

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	27.9%	31.9%
713 Amusement, Gambling & Recreation Ind	12.4%	11.8%
812 Personal and Laundry Services	8.6%	8.7%
5419 Other Professional & Technical Services	7.1%	6.6%
622 Hospitals	4.5%	4.4%
623 Nursing and Residential Care Facilities	2.8%	3.4%

43-4181 Reservation and Transportation Ticket Agents and Travel Clerks



Make and confirm reservations and sell tickets to passengers and for large hotel or motel chains. May check baggage and direct passengers to designated concourse, pier, or track; make reservations, deliver tickets, arrange for visas, contact individuals and groups to inform them of package tours, or provide tourists with travel information, such as points of interest, restaurants, rates, and emergency service. *Examples: Ticket Clerk; Hotel Reservationist*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 14.29
2014 Estimated Employment:	148
2024 Projected Employment:	169
Growth Rate, 2014-2024:	14.2%
Annual Openings:	4

Industry	2014 Share	2024 Share
531 Real Estate	39.2%	43.8%
721 Accommodation	27.7%	26.6%
485 Transit and Ground Passenger Transport	16.9%	15.4%
481 Air Transportation	8.1%	6.5%
5615 Travel Arrangement & Reservation Service	2.7%	2.4%
713 Amusement, Gambling & Recreation Ind	2.0%	2.4%

43-4199 Information and Record Clerks, All Other



All information and record clerks not listed separately *Examples: Student Admissions Clerk; Suggestion Clerk; Vault Custodian*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 15.74
2014 Estimated Employment:	1,076
2024 Projected Employment:	1,173
Growth Rate, 2014-2024:	9.0%
Annual Openings:	38

Industry	2014 Share	2024 Share
622 Hospitals	15.0%	14.5%
Federal Government, ex. Postal Service	14.1%	12.7%
Local Government, ex. Education	9.3%	9.0%
551 Management of Companies and Enterprises	6.5%	6.3%
524 Insurance Carriers & Related Activities	6.1%	6.3%
State Government, ex. Education and Hospitals	5.1%	4.9%

43-5011 Cargo and Freight Agents



Expedite and route movement of incoming and outgoing cargo and freight shipments in airline, train, and trucking terminals, and shipping docks. Take orders from customers and arrange pickup of freight and cargo for delivery to loading platform. Prepare and examine bills of lading to determine shipping charges and tariffs. *Examples: Routing Agent; Shipping Agent*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 24.51
2014 Estimated Employment:	64
2024 Projected Employment:	70
Growth Rate, 2014-2024:	9.4%
Annual Openings:	3

Industry	2014 Share	2024 Share
484 Truck Transportation	n	n
488 Support Activities for Transportation	n	n
492 Couriers and Messengers	n	n
551 Management of Companies and Enterprises	n	n

43-5021 Couriers and Messengers



Pick up and carry messages, documents, packages, and other items between offices or departments within an establishment or to other business concerns, traveling by foot, bicycle, motorcycle, automobile, or public conveyance. *Examples: Message Delivery Clerk; Telegraph Messenger*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 11.33
2014 Estimated Employment:	661
2024 Projected Employment:	721
Growth Rate, 2014-2024:	9.1%
Annual Openings:	14

Industry	2014 Share	2024 Share
492 Couriers and Messengers	44.5%	44.4%
Self-Employed Workers	17.9%	16.0%
621 Ambulatory Health Care Services	13.0%	15.4%
622 Hospitals	4.2%	4.0%
5616 Investigation and Security Services	3.6%	4.0%
551 Management of Companies and Enterprises	3.2%	3.1%

43-5031 Police, Fire, and Ambulance Dispatchers



Receive complaints from public concerning crimes and police emergencies. Broadcast orders to police patrol units in vicinity of complaint to investigate. Operate radio, telephone, or computer equipment to receive reports of fires and medical emergencies and relay information or orders to proper officials. *Examples: 911 Operator; Public Safety Dispatcher*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 19.93
2014 Estimated Employment:	695
2024 Projected Employment:	671
Growth Rate, 2014-2024:	-3.5%
Annual Openings:	17

Industry	2014 Share	2024 Share
Local Government, ex. Education	71.8%	70.9%
State Government, ex. Education and Hospitals	16.8%	16.5%
621 Ambulatory Health Care Services	4.9%	6.3%
622 Hospitals	3.7%	3.6%
6113 Colleges and Universities	2.7%	2.7%

43-5032 Dispatchers, Except Police, Fire, and Ambulance



Schedule and dispatch workers, work crews, equipment, or service vehicles for conveyance of materials, freight, or passengers, or for normal installation, service, or emergency repairs rendered outside the place of business. Duties may include using radio, telephone, or computer to transmit assignments and compiling statistics and reports on work progress. *Examples: Security Dispatcher; Repair Service Dispatcher; Taxicab Dispatcher*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 19.55
2014 Estimated Employment:	653
2024 Projected Employment:	672
Growth Rate, 2014-2024:	2.9%
Annual Openings:	18

Industry	2014 Share	2024 Share
485 Transit and Ground Passenger Transport	15.9%	15.3%
484 Truck Transportation	10.0%	10.4%
454 Nonstore Retailers	9.8%	8.0%
Local Government, ex. Education	9.7%	10.0%
441 Motor Vehicle and Parts Dealers	5.5%	5.8%
State Government, ex. Education and Hospitals	5.1%	5.2%

43-5041 Meter Readers, Utilities



Read meter and record consumption of electricity, gas, water, or steam. *Examples: Electric Meter Reader; Meter Record Clerk; Water Meter Reader*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 24.87
2014 Estimated Employment:	71
2024 Projected Employment:	58
Growth Rate, 2014-2024:	-18.3%
Annual Openings:	1

Industry	2014 Share	2024 Share
221 Utilities	43.7%	39.7%
Local Government, ex. Education	39.4%	39.7%
5613 Employment Services	12.7%	15.5%
238 Specialty Trade Contractors	n	n
551 Management of Companies and Enterprises	n	n

43-5051 Postal Service Clerks



Perform any combination of tasks in a post office, such as receive letters and parcels; sell postage and revenue stamps, postal cards, and stamped envelopes; fill out and sell money orders; place mail in pigeon holes of mail rack or in bags according to State, address, or other scheme; and examine mail for correct postage. *Examples: Parcel Post Clerk; Special Delivery Clerk; Stamp Clerk*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 24.26
2014 Estimated Employment:	439
2024 Projected Employment:	336
Growth Rate, 2014-2024:	-23.5%
Annual Openings:	5

Industry	2014 Share	2024 Share
491 Postal Service	100.0%	100.0%

43-5052 Postal Service Mail Carriers



Sort mail for delivery. Deliver mail on established route by vehicle or on foot. *Examples: Letter Carrier; Mail Deliverer; Route Carrier*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 24.34
2014 Estimated Employment:	1,467
2024 Projected Employment:	1,120
Growth Rate, 2014-2024:	-23.6%
Annual Openings:	28

Industry	2014 Share	2024 Share
491 Postal Service	100.0%	100.0%

43-5053 Postal Service Mail Sorters, Processors, and Processing Machine Operators



Prepare incoming and outgoing mail for distribution. Examine, sort, and route mail by State, type of mail, or other scheme. Load, operate, and occasionally adjust and repair mail processing, sorting, and canceling machinery. Keep records of shipments, pouches, and sacks; and other duties related to mail handling within the postal service. Must complete a competitive exam. *Examples: Mail Weigher; Mail Handler Sorting Mail*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 24.45
2014 Estimated Employment:	655
2024 Projected Employment:	450
Growth Rate, 2014-2024:	-31.3%
Annual Openings:	8

Industry		2014 Share	2024 Share
491	Postal Service	100.0%	100.0%

43-5061 Production, Planning, and Expediting Clerks



Coordinate and expedite the flow of work and materials within or between departments of an establishment according to production schedule. Duties include reviewing and distributing production, work, and shipment schedules; conferring with department supervisors to determine progress of work and completion dates; and compiling reports on progress of work, inventory levels, costs, and production problems. *Examples: Production Dispatcher; Expediter*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 24.71
2014 Estimated Employment:	1,195
2024 Projected Employment:	1,224
Growth Rate, 2014-2024:	2.4%
Annual Openings:	35

Industry		2014 Share	2024 Share
334	Computer and Electronic Product Mfg	16.6%	15.6%
332	Fabricated Metal Product Manufacturing	10.5%	11.3%
333	Machinery Manufacturing	9.1%	8.8%
5413	Architectural and Engineering Services	5.9%	6.3%
339	Miscellaneous Manufacturing	4.4%	4.0%
335	Electrical Equipment and Appliances	4.4%	3.8%

43-5071 Shipping, Receiving, and Traffic Clerks



Verify and keep records on incoming and outgoing shipments. Prepare items for shipment. Duties include assembling, addressing, stamping, and shipping merchandise or material; receiving, unpacking, verifying and recording incoming merchandise or material; and arranging for the transportation of products. *Examples: Receiver; Garment Sorter; Freight Separator*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 15.85
2014 Estimated Employment:	2,729
2024 Projected Employment:	2,717
Growth Rate, 2014-2024:	-0.4%
Annual Openings:	59

Industry		2014 Share	2024 Share
423	Merchant Wholesalers, Durable Goods	14.0%	14.1%
332	Fabricated Metal Product Manufacturing	7.4%	7.7%
334	Computer and Electronic Product Mfg	6.8%	6.3%
424	Merchant Wholesalers, Nondurable Goods	5.3%	5.2%
425	Electronic Markets and Agents/Brokers	5.1%	5.5%
444	Building Material & Garden Supply Stores	4.5%	4.5%

43-5081 Stock Clerks and Order Fillers



Receive, store, and issue sales floor merchandise, materials, equipment, and other items from stockroom, warehouse, or storage yard to fill shelves, racks, tables, or customers' orders. May mark prices on merchandise and set up sales displays. *Examples: Inventory Control Clerk; Warehouse Clerk*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 12.68
2014 Estimated Employment:	13,179
2024 Projected Employment:	13,977
Growth Rate, 2014-2024:	6.1%
Annual Openings:	498

Industry		2014 Share	2024 Share
445	Food and Beverage Stores	42.4%	43.6%
452	General Merchandise Stores	18.9%	18.5%
424	Merchant Wholesalers, Nondurable Goods	3.9%	3.8%
444	Building Material & Garden Supply Stores	3.6%	3.5%
448	Clothing and Clothing Accessories Stores	3.5%	2.8%
423	Merchant Wholesalers, Durable Goods	2.8%	2.8%

43-5111 Weighers, Measurers, Checkers, and Samplers, Recordkeeping



Weigh, measure, and check materials, supplies, and equipment for the purpose of keeping relevant records. Duties are primarily clerical by nature. Include workers who collect and keep record of samples of products or materials. *Examples: Counter; Inventory Checker; Scale Attendant*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 18.59
2014 Estimated Employment:	166
2024 Projected Employment:	170
Growth Rate, 2014-2024:	2.4%
Annual Openings:	5

Industry	2014 Share	2024 Share
424 Merchant Wholesalers, Nondurable Goods	28.3%	27.7%
493 Warehousing and Storage	15.7%	15.9%
452 General Merchandise Stores	13.3%	13.5%
423 Merchant Wholesalers, Durable Goods	6.0%	6.5%
327 Nonmetallic Mineral Product Mfg	4.8%	4.1%
325 Chemical Manufacturing	4.2%	4.1%

43-6011 Executive Secretaries and Executive Administrative Assistants



Provide high-level administrative support by conducting research, preparing statistical reports, handling information requests, and performing clerical functions such as preparing correspondence, receiving visitors, arranging conference calls, and scheduling meetings. May also train and supervise lower-level clerical staff. *Example: Administrative Aide*

Training Category: High School | < 5 yrs | none

2015 Average Wage:	\$ 26.54
2014 Estimated Employment:	1,610
2024 Projected Employment:	1,523
Growth Rate, 2014-2024:	-5.4%
Annual Openings:	17

Industry	2014 Share	2024 Share
Local Government, ex. Education	10.5%	10.2%
State Government, ex. Education and Hospitals	8.6%	8.3%
6111 Elementary and Secondary Schools	6.8%	6.4%
6113 Colleges and Universities	5.2%	5.0%
334 Computer and Electronic Product Mfg	5.0%	4.4%
523 Financial Investment and Related Activities	n	n

43-6012 Legal Secretaries



Perform secretarial duties utilizing legal terminology, procedures, and documents. Prepare legal papers and correspondence, such as summonses, complaints, motions, and subpoenas. May also assist with legal research.

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 20.20
2014 Estimated Employment:	875
2024 Projected Employment:	799
Growth Rate, 2014-2024:	-8.7%
Annual Openings:	9

Industry	2014 Share	2024 Share
5411 Legal Services	91.3%	90.4%
Local Government, ex. Education	3.7%	4.0%
State Government, ex. Education and Hospitals	1.5%	1.6%
Self-Employed Workers	0.9%	1.0%
333 Machinery Manufacturing	n	n
551 Management of Companies and Enterprises	n	n

43-6013 Medical Secretaries



Perform secretarial duties utilizing specific knowledge of medical terminology and hospital, clinic, or laboratory procedures. Duties include scheduling appointments, billing patients, and compiling and recording medical charts, reports, and correspondence. *Examples: Psychiatric Secretary; Dental Secretary*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 17.21
2014 Estimated Employment:	2,441
2024 Projected Employment:	2,901
Growth Rate, 2014-2024:	18.8%
Annual Openings:	72

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	76.6%	79.0%
622 Hospitals	18.8%	16.7%
446 Health and Personal Care Stores	1.4%	1.5%
Self-Employed Workers	0.9%	0.8%
623 Nursing and Residential Care Facilities	0.7%	0.7%
6113 Colleges and Universities	n	n

43-6014 Secretaries and Administrative Assistants, Except Legal, Medical, and Executive



Perform routine clerical and administrative functions such as drafting correspondence, scheduling appointments, organizing and maintaining paper and electronic files, or providing information to callers. *Examples: Personal Secretary; Office Secretary; Receptionist Secretary*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 16.29
2014 Estimated Employment:	11,555
2024 Projected Employment:	11,950
Growth Rate, 2014-2024:	3.4%
Annual Openings:	162

Industry	2014 Share	2024 Share
6111 Elementary and Secondary Schools	11.6%	11.0%
Local Government, ex. Education	7.2%	7.0%
621 Ambulatory Health Care Services	7.0%	8.2%
6113 Colleges and Universities	6.8%	6.6%
813 Membership Organizations & Associations	6.0%	5.8%
531 Real Estate	3.7%	3.6%

43-9011 Computer Operators



Monitor and control electronic computer and peripheral electronic data processing equipment to process business, scientific, engineering, and other data according to operating instructions. May enter commands at a computer terminal and set controls on computer and peripheral devices. Monitor and respond to operating and error messages. *Examples: Console Operator; Data Processing Clerk*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 21.08
2014 Estimated Employment:	327
2024 Projected Employment:	272
Growth Rate, 2014-2024:	-16.8%
Annual Openings:	2

Industry	2014 Share	2024 Share
518 ISPs, Search Portals, & Data Processing	21.7%	21.7%
551 Management of Companies and Enterprises	13.2%	12.5%
524 Insurance Carriers & Related Activities	10.7%	10.3%
622 Hospitals	7.7%	7.4%
454 Nonstore Retailers	5.2%	6.3%
5613 Employment Services	4.9%	5.5%

43-9021 Data Entry Keyers



Operate data entry device, such as keyboard or photo composing perforator. Duties may include verifying data and preparing materials for printing. *Example: Data Typist*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 13.99
2014 Estimated Employment:	1,442
2024 Projected Employment:	1,430
Growth Rate, 2014-2024:	-0.8%
Annual Openings:	18

Industry	2014 Share	2024 Share
5415 Computer Systems Design and Rel Services	39.9%	41.5%
518 ISPs, Search Portals, & Data Processing	13.0%	12.7%
5613 Employment Services	7.1%	7.7%
5412 Accounting and Bookkeeping Services	4.7%	4.1%
551 Management of Companies and Enterprises	3.7%	3.4%
524 Insurance Carriers & Related Activities	2.9%	2.8%

43-9022 Word Processors and Typists



Use word processor/computer or typewriter to type letters, reports, forms, or other material from rough draft, corrected copy, or voice recording. May perform other clerical duties as assigned. *Examples: Clerk Typist; Dictaphone Typist*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 16.98
2014 Estimated Employment:	88
2024 Projected Employment:	75
Growth Rate, 2014-2024:	-14.8%
Annual Openings:	0

Industry	2014 Share	2024 Share
Local Government, ex. Education	38.6%	38.7%
State Government, ex. Education and Hospitals	25.0%	24.0%
Self-Employed Workers	5.7%	6.7%
5412 Accounting and Bookkeeping Services	n	n
5413 Architectural and Engineering Services	n	n
5613 Employment Services	n	n

43-9031 Desktop Publishers



Format typescript and graphic elements using computer software to produce publication-ready material. *Examples: Computer Compositor; Electronic Pagination System Operator; Page Makeup System Operator*

Training Category: Associate | none | Short OJT

2015 Average Wage:	\$ 23.49
2014 Estimated Employment:	68
2024 Projected Employment:	57
Growth Rate, 2014-2024:	-16.2%
Annual Openings:	2

Industry	2014 Share	2024 Share
323 Printing and Related Support Activities	22.1%	19.3%
511 Publishing Industries	14.7%	10.5%
6113 Colleges and Universities	7.4%	7.0%
Self-Employed Workers	n	n
339 Miscellaneous Manufacturing	n	n
6117 Educational Support Services	n	n

43-9041 Insurance Claims and Policy Processing Clerks



Process new insurance policies, modifications to existing policies, and claims forms. Obtain information from policyholders to verify the accuracy and completeness of information on claims forms, applications and related documents, and company records. Update existing policies and company records to reflect changes requested by policyholders and insurance company representatives. *Examples: Claim Taker; Policy Issue Clerk; Underwriting Clerk*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 19.73
2014 Estimated Employment:	1,251
2024 Projected Employment:	1,307
Growth Rate, 2014-2024:	4.5%
Annual Openings:	37

Industry	2014 Share	2024 Share
524 Insurance Carriers & Related Activities	97.8%	97.6%
Self-Employed Workers	0.3%	0.3%
522 Credit Intermediation & Related Activity	n	n
5413 Architectural and Engineering Services	n	n
551 Management of Companies and Enterprises	n	n

43-9051 Mail Clerks and Mail Machine Operators, Except Postal Service



Prepare incoming and outgoing mail for distribution. Use hand or mail handling machines to time stamp, open, read, sort, and route incoming mail; and address, seal, stamp, fold, stuff, and affix postage to outgoing mail or packages. Duties may also include keeping necessary records and completed forms. *Examples: Addressing Machine Operator; Mail Distributor; Mail Opener*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 13.81
2014 Estimated Employment:	451
2024 Projected Employment:	379
Growth Rate, 2014-2024:	-16.0%
Annual Openings:	9

Industry	2014 Share	2024 Share
5418 Advertising and Related Services	26.2%	27.2%
524 Insurance Carriers & Related Activities	8.7%	8.7%
323 Printing and Related Support Activities	8.2%	7.4%
511 Publishing Industries	8.0%	5.0%
454 Nonstore Retailers	5.8%	7.1%
6113 Colleges and Universities	5.5%	5.5%

43-9061 Office Clerks, General



Perform duties too varied and diverse to be classified in any specific office clerical occupation, requiring limited knowledge of office management systems and procedures. Clerical duties may be assigned in accordance with the office procedures of individual establishments and may include a combination of answering telephones, bookkeeping, typing or word processing, stenography, office machine operation, and filing. *Examples: Administrative Clerk; Office Assistant; Real Estate Clerk*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 17.22
2014 Estimated Employment:	13,352
2024 Projected Employment:	13,842
Growth Rate, 2014-2024:	3.7%
Annual Openings:	337

Industry	2014 Share	2024 Share
238 Specialty Trade Contractors	6.7%	6.6%
621 Ambulatory Health Care Services	6.6%	7.7%
622 Hospitals	6.0%	5.7%
5415 Computer Systems Design and Rel Services	4.7%	5.1%
423 Merchant Wholesalers, Durable Goods	3.2%	3.1%
813 Membership Organizations & Associations	3.1%	3.0%

43-9071 Office Machine Operators, Except Computer



Operate one or more of a variety of office machines, such as photocopying, photographic, and duplicating machines, or other office machines. *Examples: Check Embrosser; Coin Wrapping Machine Operator; Copy Machine Operator*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 13.10
2014 Estimated Employment:	496
2024 Projected Employment:	428
Growth Rate, 2014-2024:	-13.7%
Annual Openings:	11

Industry	2014 Share	2024 Share
5614 Business Support Services	26.0%	28.5%
518 ISPs, Search Portals, & Data Processing	15.3%	15.7%
453 Miscellaneous Store Retailers	14.1%	12.4%
524 Insurance Carriers & Related Activities	7.5%	7.0%
812 Personal and Laundry Services	5.0%	4.4%
323 Printing and Related Support Activities	4.8%	4.2%

43-9081 Proofreaders and Copy Markers



Read transcript or proof type setup to detect and mark for correction any grammatical, typographical, or compositional errors. *Example: Copy Reader*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 18.95
2014 Estimated Employment:	52
2024 Projected Employment:	57
Growth Rate, 2014-2024:	9.6%
Annual Openings:	1

Industry	2014 Share	2024 Share
454 Nonstore Retailers	21.2%	26.3%
Self-Employed Workers	19.2%	17.5%
6113 Colleges and Universities	7.7%	7.0%
323 Printing and Related Support Activities	n	n
511 Publishing Industries	n	n
6117 Educational Support Services	n	n

43-9111 Statistical Assistants



Compile and compute data according to statistical formulas for use in statistical studies. May perform actuarial computations and compile charts and graphs for use by actuaries. Include actuarial clerks. *Examples: Tabulating Clerk; Compiler; Data Technician*

Training Category: Bachelor | none | none

2015 Average Wage:	\$ 22.88
2014 Estimated Employment:	195
2024 Projected Employment:	185
Growth Rate, 2014-2024:	-5.1%
Annual Openings:	8

Industry	2014 Share	2024 Share
524 Insurance Carriers & Related Activities	28.2%	24.3%
Self-Employed Workers	7.2%	8.1%
State Government, ex. Education and Hospitals	5.1%	4.9%
511 Publishing Industries	n	n
523 Financial Investment and Related Activities	n	n
5419 Other Professional & Technical Services	n	n

43-9199 Office and Administrative Support Workers, All Other



All office and administrative support workers not listed separately. *Examples: Notary Public; Envelope Stuffer*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 13.56
2014 Estimated Employment:	3,147
2024 Projected Employment:	3,454
Growth Rate, 2014-2024:	9.8%
Annual Openings:	116

Industry	2014 Share	2024 Share
6113 Colleges and Universities	19.0%	17.9%
5613 Employment Services	14.5%	16.4%
445 Food and Beverage Stores	8.1%	8.1%
622 Hospitals	4.4%	4.2%
Self-Employed Workers	3.7%	3.5%
6112 Junior Colleges	n	n

45-1011 First-Line Supervisors of Farming, Fishing, and Forestry Workers



Directly supervise and coordinate the activities of agricultural, forestry, aquacultural, and related workers. *Examples: Christmas Tree Farm Manager; Harvest Crew Supervisor; Fish Hatchery Supervisor*

Training Category: High School | < 5 yrs | none

2015 Average Wage:	\$ 24.78
2014 Estimated Employment:	106
2024 Projected Employment:	103
Growth Rate, 2014-2024:	-2.8%
Annual Openings:	3

Industry		2014 Share	2024 Share
113	Forestry and Logging	25.5%	27.2%
	Self-Employed Workers	18.9%	18.5%
111	Crop Production	12.3%	12.6%
112	Animal Production	12.3%	12.6%
444	Building Material & Garden Supply Stores	n	n
713	Amusement, Gambling & Recreation Ind	n	n

45-2011 Agricultural Inspectors



Inspect agricultural commodities, processing equipment, and facilities, and fish and logging operations, to ensure compliance with regulations and laws governing health, quality, and safety.

Training Category: Bachelor | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
	Federal Government, ex. Postal Service	n	n
	State Government, ex. Education and Hospitals	n	n

45-2021 Animal Breeders



Breed animals, including cattle, goats, horses, sheep, swine, poultry, dogs, cats, or pet birds. Select and breed animals according to their genealogy, characteristics, and offspring. May require a knowledge of artificial insemination techniques and equipment use. May involve keeping records on heats, birth intervals, or pedigree. Exclude Nonfarm Animal Caretakers (39-2021) who may occasionally breed animals as part of their other caretaking duties. Exclude Animal Scientists (19-1011) whose primary function is research.

Training Category: High School | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
112	Animal Production	n	n

45-2041 Graders and Sorters, Agricultural Products



Grade, sort, or classify unprocessed food and other agricultural products by size, weight, color, or condition. *Examples: Chicken Grader; Fruit Sorter*

Training Category: none | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	26
2024 Projected Employment:	26
Growth Rate, 2014-2024:	0.0%
Annual Openings:	0

Industry		2014 Share	2024 Share
111	Crop Production	92.3%	92.3%
112	Animal Production	7.7%	7.7%

45-2091 Agricultural Equipment Operators



Drive and control farm equipment to till soil and to plant, cultivate, and harvest crops. May perform tasks, such as crop baling or hay bucking. May operate stationary equipment to perform post-harvest tasks, such as husking, shelling, threshing, and ginning. *Examples: Baler; Combine Operator; Tractor Driver*

Training Category: none | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	56
2024 Projected Employment:	67
Growth Rate, 2014-2024:	19.6%
Annual Openings:	3

Industry	2014 Share	2024 Share
111 Crop Production	83.9%	85.1%
112 Animal Production	16.1%	14.9%

45-2092 Farmworkers and Laborers, Crop, Nursery, and Greenhouse



Manually plant, cultivate, and harvest vegetables, fruits, nuts, horticultural specialties, and field crops. Use hand tools, such as shovels, trowels, hoes, tampers, pruning hooks, shears, and knives. Duties may include tilling soil and applying fertilizers; transplanting, weeding, thinning, or pruning crops; applying pesticides; cleaning, grading, sorting, packing and loading harvested products. *Examples: Apple Picker; Tobacco Cutter; Vegetable Loader*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 13.15
2014 Estimated Employment:	684
2024 Projected Employment:	700
Growth Rate, 2014-2024:	2.3%
Annual Openings:	20

Industry	2014 Share	2024 Share
111 Crop Production	71.2%	71.6%
444 Building Material & Garden Supply Stores	10.7%	10.0%
424 Merchant Wholesalers, Nondurable Goods	4.7%	4.1%
112 Animal Production	2.6%	2.6%
5416 Management & Technical Consulting Svc	2.2%	2.6%
623 Nursing and Residential Care Facilities	n	n

45-2093 Farmworkers, Farm, Ranch, and Aquacultural Animals



Attend to live farm, ranch, or aquacultural animals that may include cattle, sheep, swine, goats, horses and other equines, poultry, finfish, shellfish, and bees. Attend to animals produced for animal products, such as meat, fur, skins, feathers, eggs, milk, and honey. *Examples: Horse Groomer; Beekeeper; Livestock Feeder*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 12.80
2014 Estimated Employment:	459
2024 Projected Employment:	485
Growth Rate, 2014-2024:	5.7%
Annual Openings:	15

Industry	2014 Share	2024 Share
112 Animal Production	53.8%	52.2%
115 Agriculture & Forestry Support Activity	n	n
5419 Other Professional & Technical Services	n	n
6113 Colleges and Universities	n	n
713 Amusement, Gambling & Recreation Ind	n	n
721 Accommodation	n	n

45-2099 Agricultural Workers, All Other



All agricultural workers not listed separately.

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 18.89
2014 Estimated Employment:	34
2024 Projected Employment:	33
Growth Rate, 2014-2024:	-2.9%
Annual Openings:	1

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	82.4%	81.8%
112 Animal Production	n	n
5417 Scientific Research and Development Svc	n	n

45-3011 Fishers and Related Fishing Workers



Use nets, fishing rods, traps, or other equipment to catch and gather fish or other aquatic animals from rivers, lakes, or oceans, for human consumption or other uses. May haul game onto ship. Include aquacultural laborers who work on fish farms with Agricultural Workers, All Other (45-2099).

Training Category: none | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
114 Fishing, Hinting, and Trapping	n	n

45-4011 Forest and Conservation Workers



Under supervision, perform manual labor necessary to develop, maintain, or protect forest, forested areas, and woodlands through such activities as raising and transporting tree seedlings; combating insects, pests, and diseases harmful to trees; and building erosion and water control structures and leaching of forest soil. Include forester aides, seedling pullers, and tree planters. *Examples: Christmas Tree Farm Worker; Seedling Puller; Forestry Laborer*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
State Government, ex. Education and Hospitals	n	n

45-4021 Fallers



Use axes or chainsaws to fell trees using knowledge of tree characteristics and cutting techniques to control direction of fall and minimize tree damage. *Examples: Lumberjack; Timber Cutter*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
113 Forestry and Logging	n	n

45-4022 Logging Equipment Operators



Drive logging tractor or wheeled vehicle equipped with one or more accessories, such as bulldozer blade, frontal shear, grapple, logging arch, cable winches, hoisting rack, or crane boom, to fell tree; to skid, load, unload, or stack logs; or to pull stumps or clear brush. *Examples: Log Hauler; Logging Tractor Operator; Skidder Driver*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 17.02
2014 Estimated Employment:	291
2024 Projected Employment:	290
Growth Rate, 2014-2024:	-0.3%
Annual Openings:	7

Industry	2014 Share	2024 Share
113 Forestry and Logging	78.4%	79.7%
Self-Employed Workers	n	n
321 Wood Product Manufacturing	n	n

45-4023 Log Graders and Scalers



Grade logs or estimate the marketable content or value of logs or pulpwood in sorting yards, millpond, log deck, or similar locations. Inspect logs for defects or measure logs to determine volume. *Examples: Timber Estimator; Landing Scaler*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 16.06
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
321 Wood Product Manufacturing	n	n
423 Merchant Wholesalers, Durable Goods	n	n

47-1011 First-Line Supervisors of Construction Trades and Extraction Workers



Directly supervise and coordinate activities of construction or extraction workers. *Example: Cement Contractor*

Training Category: High School | 5+ years | none

2015 Average Wage:	\$ 29.33
2014 Estimated Employment:	2,467
2024 Projected Employment:	2,620
Growth Rate, 2014-2024:	6.2%
Annual Openings:	35

Industry	2014 Share	2024 Share
238 Specialty Trade Contractors	23.9%	24.1%
236 Construction of Buildings	23.4%	23.5%
State Government, ex. Education and Hospitals	11.9%	11.8%
Self-Employed Workers	11.5%	11.5%
237 Heavy and Civil Engineering Construction	10.1%	9.7%
Local Government, ex. Education	9.3%	9.3%

47-2011 Boilermakers



Construct, assemble, maintain, and repair stationary steam boilers and boiler house auxiliaries. Align structures or plate sections to assemble boiler frame tanks or vats, following blueprints. *Examples: Boiler Installer; Boiler Mechanic; Pressure Tester*

Training Category: High School | none | Apprenticeship

2015 Average Wage:	\$ 33.63
2014 Estimated Employment:	193
2024 Projected Employment:	210
Growth Rate, 2014-2024:	8.8%
Annual Openings:	5

Industry	2014 Share	2024 Share
238 Specialty Trade Contractors	95.9%	96.2%
5617 Services to Buildings and Dwellings	n	n
6111 Elementary and Secondary Schools	n	n
6113 Colleges and Universities	n	n

47-2021 Brickmasons and Blockmasons



Lay and bind building materials, such as brick, structural tile, concrete block, cinder block, glass block, and terra-cotta block, with mortar and other substances to construct or repair walls, partitions, arches, sewers, and other structures. *Examples: Adobe Layer; Chimney Builder; Furnace Liner*

Training Category: High School | none | Apprenticeship

2015 Average Wage:	\$ 23.14
2014 Estimated Employment:	364
2024 Projected Employment:	418
Growth Rate, 2014-2024:	14.8%
Annual Openings:	8

Industry	2014 Share	2024 Share
238 Specialty Trade Contractors	61.0%	63.6%
Self-Employed Workers	22.8%	20.8%
5617 Services to Buildings and Dwellings	15.1%	14.4%
6111 Elementary and Secondary Schools	n	n
6113 Colleges and Universities	n	n

47-2022 Stonemasons



Build stone structures, such as piers, walls, and abutments. Lay walks, curbstones, or special types of masonry for vats, tanks, and floors. *Examples: Granite Setter; Monument Installer; Rock Mason*

Training Category: High School | none | Apprenticeship

2015 Average Wage:	\$ 19.94
2014 Estimated Employment:	120
2024 Projected Employment:	131
Growth Rate, 2014-2024:	9.2%
Annual Openings:	2

Industry		2014 Share	2024 Share
5617	Services to Buildings and Dwellings	44.2%	43.5%
238	Specialty Trade Contractors	30.8%	32.1%
	Self-Employed Workers	22.5%	22.1%
453	Miscellaneous Store Retailers	2.5%	2.3%

47-2031 Carpenters



Construct, erect, install, or repair structures and fixtures made of wood, such as concrete forms; building frameworks, including partitions, joists, studding, and rafters; wood stairways, window and door frames, and hardwood floors. May also install cabinets, siding, drywall and batt or roll insulation. *Examples: Shipwright; Cabinetmaker; Wood Floor Layer*

Training Category: High School | none | Apprenticeship

2015 Average Wage:	\$ 20.88
2014 Estimated Employment:	4,138
2024 Projected Employment:	4,353
Growth Rate, 2014-2024:	5.2%
Annual Openings:	70

Industry		2014 Share	2024 Share
236	Construction of Buildings	38.0%	38.5%
	Self-Employed Workers	31.1%	31.2%
238	Specialty Trade Contractors	18.9%	18.4%
237	Heavy and Civil Engineering Construction	3.2%	3.1%
321	Wood Product Manufacturing	2.0%	2.2%
444	Building Material & Garden Supply Stores	1.9%	1.8%

47-2041 Carpet Installers



Lay and install carpet from rolls or blocks on floors. Install padding and trim flooring materials. *Examples: Floor Coverer; Rug Layer*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 17.35
2014 Estimated Employment:	102
2024 Projected Employment:	100
Growth Rate, 2014-2024:	-2.0%
Annual Openings:	1

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	47.1%	44.0%
	Self-Employed Workers	39.2%	42.0%
442	Furniture and Related Product Mfg	13.7%	14.0%

47-2042 Floor Layers, Except Carpet, Wood, and Hard Tiles



Apply blocks, strips, or sheets of shock-absorbing, sound-deadening, or decorative coverings to floors. *Examples: Composition Floor Setter; Linoleum Layer; Soft Tile Setter*

Training Category: none | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	28
2024 Projected Employment:	31
Growth Rate, 2014-2024:	10.7%
Annual Openings:	0

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	60.7%	61.3%
	Self-Employed Workers	39.3%	38.7%

47-2043 Floor Sanders and Finishers



Scrape and sand wooden floors to smooth surfaces using floor scraper and floor sanding machine, and apply coats of finish. *Examples: Floor Sanding Machine Operator; Floor Surfer; Hardwood Finisher*

Training Category: none | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	52
2024 Projected Employment:	53
Growth Rate, 2014-2024:	1.9%
Annual Openings:	1

Industry		2014 Share	2024 Share
	Self-Employed Workers	38.5%	39.6%
444	Building Material & Garden Supply Stores	36.5%	35.9%
238	Specialty Trade Contractors	25.0%	24.5%

47-2044 Tile and Marble Setters



Apply hard tile, marble, and wood tile to walls, floors, ceilings, and roof decks. *Examples: Ceramic Tile Installer; Hard Tile Setter; Marble Installer*

Training Category: none | none | Long OJT

2015 Average Wage:	\$ 22.81
2014 Estimated Employment:	84
2024 Projected Employment:	89
Growth Rate, 2014-2024:	6.0%
Annual Openings:	1

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	56.0%	55.1%
	Self-Employed Workers	39.3%	39.3%
327	Nonmetallic Mineral Product Mfg	3.6%	3.4%
442	Furniture and Home Furnishings Stores	1.2%	2.3%

47-2051 Cement Masons and Concrete Finishers



Smooth and finish surfaces of poured concrete, such as floors, walks, sidewalks, roads, or curbs using a variety of hand and power tools. Align forms for sidewalks, curbs, or gutters; patch voids; use saws to cut expansion joints. *Examples: Curb Builder; Concrete Floor Installer*

Training Category: none | none | Moderate OJT

2015 Average Wage:	\$ 21.77
2014 Estimated Employment:	194
2024 Projected Employment:	211
Growth Rate, 2014-2024:	8.8%
Annual Openings:	4

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	88.1%	88.6%
236	Construction of Buildings	5.2%	5.2%
327	Nonmetallic Mineral Product Mfg	3.6%	3.3%
	Self-Employed Workers	n	n
237	Heavy and Civil Engineering Construction	n	n

47-2061 Construction Laborers



Perform tasks involving physical labor at building, highway, and heavy construction projects, tunnel and shaft excavations, and demolition sites. May operate hand and power tools of all types: air hammers, earth tampers, cement mixers, small mechanical hoists, surveying and measuring equipment, and a variety of other equipment and instruments. *Examples: Air Hammer Operator; Asphalt Patcher; Construction Craft Laborer*

Training Category: none | none. | Short OJT

2015 Average Wage:	\$ 16.07
2014 Estimated Employment:	3,632
2024 Projected Employment:	3,937
Growth Rate, 2014-2024:	8.4%
Annual Openings:	102

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	34.2%	34.1%
	Self-Employed Workers	23.6%	23.0%
236	Construction of Buildings	18.8%	20.4%
237	Heavy and Civil Engineering Construction	15.6%	14.7%
531	Real Estate	1.9%	1.8%
5613	Employment Services	1.8%	2.0%

47-2071 Paving, Surfacing, and Tamping Equipment Operators



Operate equipment used for applying concrete, asphalt, or other materials to road beds, parking lots, or airport runways and taxiways, or equipment used for tamping gravel, dirt, or other materials. Include concrete and asphalt paving machine operators, form tamperers, tamping machine operators, and stone spreader operators. *Examples: Asphalt Spreader Operator; Black Top Machine Operator; Road Grader*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 18.88
2014 Estimated Employment:	228
2024 Projected Employment:	234
Growth Rate, 2014-2024:	2.6%
Annual Openings:	6

Industry	2014 Share	2024 Share
238 Specialty Trade Contractors	46.9%	47.9%
237 Heavy and Civil Engineering Construction	28.5%	26.5%
324 Petroleum & Coal Products Manufacturing	15.4%	16.2%
Local Government, ex. Education	4.8%	5.1%
Self-Employed Workers	4.4%	4.3%

47-2072 Pile-Driver Operators



Operate pile drivers mounted on skids, barges, crawler treads, or locomotive cranes to drive pilings for retaining walls, bulkheads, and foundations of structures, such as buildings, bridges, and piers.

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
237 Heavy and Civil Engineering Construction	n	n

47-2073 Operating Engineers and Other Construction Equipment Operators



Operate one or several types of power construction equipment, such as motor graders, bulldozers, scrapers, compressors, pumps, derricks, shovels, tractors, or front-end loaders to excavate, move, and grade earth, erect structures, or pour concrete or other hard surface pavement. May repair and maintain equipment in addition to other duties. *Examples: Bulldozer Operator; Power Grader Operator; Steam Shovel Operator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 21.44
2014 Estimated Employment:	949
2024 Projected Employment:	995
Growth Rate, 2014-2024:	4.9%
Annual Openings:	21

Industry	2014 Share	2024 Share
238 Specialty Trade Contractors	44.6%	44.5%
237 Heavy and Civil Engineering Construction	14.9%	14.3%
Local Government, ex. Education	12.1%	12.3%
212 Mining (except Oil and Gas)	9.3%	9.7%
236 Construction of Buildings	6.7%	6.8%
423 Merchant Wholesalers, Durable Goods	5.1%	5.3%

47-2081 Drywall and Ceiling Tile Installers



Apply plasterboard or other wallboard to ceilings or interior walls of buildings. Apply or mount acoustical tiles or blocks, strips, or sheets of shock-absorbing materials to ceilings and walls of buildings to reduce or reflect sound. *Examples: Acoustical Carpenter; Sheet Rock Hanger*

Training Category: none | none | Moderate OJT

2015 Average Wage:	\$ 21.29
2014 Estimated Employment:	342
2024 Projected Employment:	345
Growth Rate, 2014-2024:	0.9%
Annual Openings:	2

Industry	2014 Share	2024 Share
238 Specialty Trade Contractors	79.5%	78.6%
Self-Employed Workers	17.0%	17.7%
236 Construction of Buildings	3.5%	3.8%

47-2082 Tapers



Seal joints between plasterboard or other wallboard to prepare wall surface for painting or papering. *Examples: Sheet Rock Taper; Wall Taper*

Training Category: none | none | Moderate OJT

2015 Average Wage:	\$ 32.40
2014 Estimated Employment:	100
2024 Projected Employment:	101
Growth Rate, 2014-2024:	1.0%
Annual Openings:	1

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	81.0%	80.2%
	Self-Employed Workers	n	n
236	Construction of Buildings	n	n

47-2111 Electricians



Install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes. May install or service street lights, intercom systems, or electrical control systems. *Examples: Electrical Sign Servicer; House Wirer; Chief Electrician*

Training Category: High School | none | Apprenticeship

2015 Average Wage:	\$ 23.23
2014 Estimated Employment:	2,323
2024 Projected Employment:	2,575
Growth Rate, 2014-2024:	10.9%
Annual Openings:	61

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	78.0%	79.5%
	Self-Employed Workers	8.0%	7.6%
6113	Colleges and Universities	2.5%	2.3%
332	Fabricated Metal Product Manufacturing	1.3%	1.2%
622	Hospitals	1.1%	1.1%
313	Textile Mills	0.8%	0.7%

47-2121 Glaziers



Install glass in windows, skylights, store fronts, and display cases, or on surfaces, such as building fronts, interior walls, ceilings, and tabletops. *Examples: Window Glass Installer; Plate Glass Installer; Stained Glass Glazier*

Training Category: High School | none | Apprenticeship

2015 Average Wage:	\$ 16.01
2014 Estimated Employment:	89
2024 Projected Employment:	91
Growth Rate, 2014-2024:	2.3%
Annual Openings:	1

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	52.8%	51.7%
811	Repair and Maintenance	42.7%	44.0%
	Self-Employed Workers	n	n
444	Building Material & Garden Supply Stores	n	n

47-2131 Insulation Workers, Floor, Ceiling, and Wall



Line and cover structures with insulating materials. May work with batt, roll, or blown insulation materials. *Example: Fiberglass Insulation Installer*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 17.67
2014 Estimated Employment:	187
2024 Projected Employment:	190
Growth Rate, 2014-2024:	1.6%
Annual Openings:	6

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	80.2%	79.5%
236	Construction of Buildings	16.0%	16.8%
	Self-Employed Workers	3.7%	3.7%

47-2141 Painters, Construction and Maintenance



Paint walls, equipment, buildings, bridges, and other structural surfaces, using brushes, rollers, and spray guns. May remove old paint to prepare surface prior to painting. May mix colors or oils to obtain desired color or consistency. *Examples: Bridge Painter; Traffic Line Painter; House Painter*

Training Category: none | none | Moderate OJT

2015 Average Wage:	\$ 17.83
2014 Estimated Employment:	1,225
2024 Projected Employment:	1,292
Growth Rate, 2014-2024:	5.5%
Annual Openings:	27

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	49.7%	49.5%
	Self-Employed Workers	38.5%	38.5%
236	Construction of Buildings	5.1%	5.2%
6113	Colleges and Universities	1.5%	1.5%
622	Hospitals	1.4%	1.4%
	Local Government, ex. Education	n	n

47-2142 Paperhangers



Cover interior walls and ceilings of rooms with decorative wallpaper or fabric, or attach advertising posters on surfaces, such as walls and billboards. Duties include removing old materials from surface to be papered. *Examples: Billboard Poster; Wallpaperer*

Training Category: none | none | Long OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
	Self-Employed Workers	n	n
238	Specialty Trade Contractors	n	n

47-2151 Pipelayers



Lay pipe for storm or sanitation sewers, drains, and water mains. Perform any combination of the following tasks: grade trenches or culverts, position pipe, or seal joints. *Examples: Trench Pipe Layer; Pipe Liner; Sewer Connector*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 21.39
2014 Estimated Employment:	144
2024 Projected Employment:	151
Growth Rate, 2014-2024:	4.9%
Annual Openings:	3

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	57.6%	58.3%
237	Heavy and Civil Engineering Construction	24.3%	23.2%
	Local Government, ex. Education	9.0%	9.3%
	Self-Employed Workers	n	n

47-2152 Plumbers, Pipefitters, and Steamfitters



Assemble, install, alter, and repair pipelines or pipe systems that carry water, steam, air, or other liquids or gases. May install heating and cooling equipment and mechanical control systems. *Examples: Gas Line Installer; Hot Water Heater Installer; Sprinkling System Installer*

Training Category: High School | none | Apprenticeship

2015 Average Wage:	\$ 25.02
2014 Estimated Employment:	1,776
2024 Projected Employment:	1,903
Growth Rate, 2014-2024:	7.2%
Annual Openings:	37

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	72.9%	73.6%
	Self-Employed Workers	9.5%	9.3%
237	Heavy and Civil Engineering Construction	4.3%	4.5%
454	Nonstore Retailers	2.0%	1.5%
	Local Government, ex. Education	1.9%	1.8%
6113	Colleges and Universities	1.8%	1.7%

47-2161 Plasterers and Stucco Masons



Apply interior or exterior plaster, cement, stucco, or similar materials. May also set ornamental plaster. *Examples: Dry Plasterer; Stucco Worker; Ornamental Plasterer*

Training Category: none | none | Long OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
	Self-Employed Workers	n	n
236	Construction of Buildings	n	n
238	Specialty Trade Contractors	n	n

47-2171 Reinforcing Iron and Rebar Workers



Position and secure steel bars or mesh in concrete forms in order to reinforce concrete. Use a variety of fasteners, rod-bending machines, blowtorches, and hand tools. Include rod busters.

Training Category: High School | none | Apprenticeship

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	n	n

47-2181 Roofers



Cover roofs of structures with shingles, slate, asphalt, aluminum, wood, and related materials. May spray roofs, sidings, and walls with material to bind, seal, insulate, or soundproof sections of structures. *Examples: Slater; Hot Tar Roofer; Terra Cotta Roofer*

Training Category: none | none | Moderate OJT

2015 Average Wage:	\$ 20.85
2014 Estimated Employment:	260
2024 Projected Employment:	283
Growth Rate, 2014-2024:	8.9%
Annual Openings:	6

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	79.2%	79.9%
	Self-Employed Workers	16.9%	16.6%
236	Construction of Buildings	n	n
6113	Colleges and Universities	n	n

47-2211 Sheet Metal Workers



Fabricate, assemble, install, and repair sheet metal products and equipment, such as ducts, control boxes, drainpipes, and furnace casings. *Example: Tinsmith*

Training Category: High School | none | Apprenticeship

2015 Average Wage:	\$ 20.87
2014 Estimated Employment:	793
2024 Projected Employment:	834
Growth Rate, 2014-2024:	5.2%
Annual Openings:	21

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	47.5%	46.8%
332	Fabricated Metal Product Manufacturing	23.8%	26.4%
333	Machinery Manufacturing	20.2%	18.6%
	Self-Employed Workers	4.2%	4.1%
425	Electronic Markets and Agents/Brokers	1.6%	1.8%
423	Merchant Wholesalers, Durable Goods	n	n

47-2221 Structural Iron and Steel Workers



Raise, place, and unite iron or steel girders, columns, and other structural members to form completed structures or structural frameworks. May erect metal storage tanks and assemble prefabricated metal buildings. *Examples: Bolter; Guard Rail Installer; Construction Ironworker*

Training Category: High School | none | Apprenticeship

2015 Average Wage:	\$ 22.61
2014 Estimated Employment:	149
2024 Projected Employment:	143
Growth Rate, 2014-2024:	-4.0%
Annual Openings:	2

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	99.3%	99.3%
	Self-Employed Workers	0.7%	0.7%

47-3011 Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters



Help brickmasons, blockmasons, stonemasons, or tile and marble setters by performing duties of lesser skill. Duties include using, supplying or holding materials or tools, and cleaning work area and equipment. *Examples: Brick Carrier; Brick Washer; Tile Layers Helper*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 17.09
2014 Estimated Employment:	127
2024 Projected Employment:	150
Growth Rate, 2014-2024:	18.1%
Annual Openings:	4

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	100.0%	99.3%
	Self-Employed Workers	n	n

47-3012 Helpers--Carpenters



Help carpenters by performing duties of lesser skill. Duties include using, supplying or holding materials or tools, and cleaning work area and equipment. *Examples: Carpenter's Mate; Joiner's Helper; Cabinetmaker's Helper*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 13.75
2014 Estimated Employment:	104
2024 Projected Employment:	109
Growth Rate, 2014-2024:	4.8%
Annual Openings:	1

Industry		2014 Share	2024 Share
236	Construction of Buildings	52.9%	54.1%
238	Specialty Trade Contractors	27.9%	27.5%
321	Wood Product Manufacturing	13.5%	12.8%
237	Heavy and Civil Engineering Construction	5.8%	5.5%

47-3013 Helpers--Electricians



Help electricians by performing duties of lesser skill. Duties include using, supplying or holding materials or tools, and cleaning work area and equipment. *Examples: Utilities Ground Worker; Electrician's Assistant*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 13.05
2014 Estimated Employment:	84
2024 Projected Employment:	95
Growth Rate, 2014-2024:	13.1%
Annual Openings:	2

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	96.4%	96.8%
339	Miscellaneous Manufacturing	3.6%	3.2%

47-3014 Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons



Help painters, paperhangers, plasterers, or stucco masons by performing duties of lesser skill. Duties include using, supplying or holding materials or tools, and cleaning work area and equipment.

Training Category: none | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	n	n

47-3015 Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters



Help plumbers, pipefitters, steamfitters, or pipelayers by performing duties of lesser skill. Duties include using, supplying or holding materials or tools, and cleaning work area and equipment. *Examples: Pipe Cutter; Plumber's Assistant; Water Main Installer's Helper*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 15.12
2014 Estimated Employment:	77
2024 Projected Employment:	81
Growth Rate, 2014-2024:	5.2%
Annual Openings:	1

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	66.2%	67.9%
237	Heavy and Civil Engineering Construction	33.8%	32.1%

47-3016 Helpers--Roofers



Help roofers by performing duties of lesser skill. Duties include using, supplying or holding materials or tools, and cleaning work area and equipment. *Example: Roofer's Assistant*

Training Category: none | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	n	n

47-3019 Helpers, Construction Trades, All Other



All construction trades helpers not listed separately. *Examples: Cement Mixer; Glazier's Helper; Surveyor's Helper*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 10.07
2014 Estimated Employment:	50
2024 Projected Employment:	57
Growth Rate, 2014-2024:	14.0%
Annual Openings:	2

Industry		2014 Share	2024 Share
5613	Employment Services	46.0%	47.4%
	State Government, ex. Education and Hospitals	22.0%	21.1%
238	Specialty Trade Contractors	18.0%	17.5%
6113	Colleges and Universities	10.0%	8.8%
442	Furniture and Home Furnishings Stores	4.0%	5.3%

47-4011 Construction and Building Inspectors



Inspect structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations. Inspections may be general in nature or may be limited to a specific area, such as electrical systems or plumbing. *Examples: Highway Inspector; Electrical Inspector; Architectural Inspector*

Training Category: High School | 5+ years | Moderate OJT

2015 Average Wage:	\$ 26.88
2014 Estimated Employment:	322
2024 Projected Employment:	346
Growth Rate, 2014-2024:	7.5%
Annual Openings:	11

Industry	2014 Share	2024 Share
Local Government, ex. Education	51.2%	50.6%
5413 Architectural and Engineering Services	16.8%	17.6%
Self-Employed Workers	8.4%	8.1%
531 Real Estate	7.8%	7.8%
State Government, ex. Education and Hospitals	5.6%	5.5%
238 Specialty Trade Contractors	n	n

47-4021 Elevator Installers and Repairers



Assemble, install, repair, or maintain electric or hydraulic freight or passenger elevators, escalators, or dumbwaiters. *Examples: Elevator Mechanic; Elevator Installer*

Training Category: High School | none | Apprenticeship

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
238 Specialty Trade Contractors	n	n

47-4031 Fence Erectors



Erect and repair metal and wooden fences and fence gates around highways, industrial establishments, residences, or farms, using hand and power tools. *Examples: Wire Fence Builder; Wood Fence Installer*

Training Category: none | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
238 Specialty Trade Contractors	n	n
Self-Employed Workers	n	n

47-4041 Hazardous Materials Removal Workers



Identify, remove, pack, transport, or dispose of hazardous materials, including asbestos, lead-based paint, waste oil, fuel, transmission fluid, radioactive materials, contaminated soil, etc. Specialized training and certification in hazardous materials handling or a confined entry permit are generally required. May operate earth-moving equipment or trucks. *Examples: Asbestos Remover; Irradiated Fuel Handler; Hazardous Waste Remover*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 20.17
2014 Estimated Employment:	232
2024 Projected Employment:	284
Growth Rate, 2014-2024:	22.4%
Annual Openings:	10

Industry	2014 Share	2024 Share
5613 Employment Services	72.8%	75.0%
562 Waste Management and Remediation Service	15.1%	13.7%
Self-Employed Workers	3.0%	2.5%
238 Specialty Trade Contractors	n	n
332 Fabricated Metal Product Manufacturing	n	n
5416 Management & Technical Consulting Svc	n	n

47-4051 Highway Maintenance Workers



Maintain highways, municipal and rural roads, airport runways, and rights-of-way. Duties include patching broken or eroded pavement, repairing guard rails, highway markers, and snow fences. May also mow or clear brush from along road or plow snow from roadway. *Examples: Snow Plow Operator; Road Patcher; Road Sign Installer*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 17.13
2014 Estimated Employment:	1,831
2024 Projected Employment:	1,936
Growth Rate, 2014-2024:	5.7%
Annual Openings:	59

Industry	2014 Share	2024 Share
Local Government, ex. Education	56.7%	56.7%
State Government, ex. Education and Hospitals	40.7%	40.6%
Self-Employed Workers	1.7%	1.7%
5612 Facilities Support Services	n	n
712 Museums, Parks and Historical Sites	n	n

47-4061 Rail-Track Laying and Maintenance Equipment Operators



Lay, repair, and maintain track for standard or narrow-gauge railroad equipment used in regular railroad service or in plant yards, quarries, sand and gravel pits, and mines. *Examples: Rail Maintenance Worker; Track Layer*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	10
2024 Projected Employment:	12
Growth Rate, 2014-2024:	20.0%
Annual Openings:	0

Industry	2014 Share	2024 Share
482 Rail Transportation	n	n
Local Government, ex. Education	n	n

47-4071 Septic Tank Servicers and Sewer Pipe Cleaners



Clean and repair septic tanks, sewer lines, or drains. May patch walls and partitions of tank, replace damaged drain tile, or repair breaks in underground piping. *Examples: Sewage Screen Operator; Septic Tank Cleaner; Electric Sewer Cleaning Machine Operator*

Training Category: none | none | Moderate OJT

2015 Average Wage:	\$ 16.38
2014 Estimated Employment:	132
2024 Projected Employment:	166
Growth Rate, 2014-2024:	25.8%
Annual Openings:	6

Industry	2014 Share	2024 Share
562 Waste Management and Remediation Service	84.9%	86.8%
Local Government, ex. Education	9.9%	8.4%
238 Specialty Trade Contractors	5.3%	4.8%

47-4099 Construction and Related Workers, All Other



All construction and related workers not listed separately. *Example: Waterproofer*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 23.55
2014 Estimated Employment:	240
2024 Projected Employment:	248
Growth Rate, 2014-2024:	3.3%
Annual Openings:	5

Industry	2014 Share	2024 Share
238 Specialty Trade Contractors	34.2%	34.3%
State Government, ex. Education and Hospitals	22.9%	23.4%
Self-Employed Workers	8.8%	8.9%
6113 Colleges and Universities	7.9%	7.7%
237 Heavy and Civil Engineering Construction	6.3%	6.5%
517 Telecommunications	4.2%	3.6%

47-5021 Earth Drillers, Except Oil and Gas



Operate a variety of drills—such as rotary, churn, and pneumatic—to tap sub-surface water and salt deposits, to remove core samples during mineral exploration or soil testing, and to facilitate the use of explosives in mining or construction. May use explosives. *Examples: Earth Boring Machine Operator; Tunneling Machine Operator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 20.81
2014 Estimated Employment:	121
2024 Projected Employment:	121
Growth Rate, 2014-2024:	0.0%
Annual Openings:	3

Industry	2014 Share	2024 Share
237 Heavy and Civil Engineering Construction	50.4%	50.4%
238 Specialty Trade Contractors	34.7%	35.5%
213 Support Activities for Mining	9.9%	9.1%
Self-Employed Workers	n	n
5413 Architectural and Engineering Services	n	n

47-5031 Explosives Workers, Ordnance Handling Experts, and Blasters



Place and detonate explosives to demolish structures or to loosen, remove, or displace earth, rock, or other materials. May perform specialized handling, storage, and accounting procedures. *Examples: Blast Setter; Dynamiter; Explosive Technician*

Training Category: High School | <5 years | Long OJT

2015 Average Wage:	\$ 28.52
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
213 Support Activities for Mining	n	n
238 Specialty Trade Contractors	n	n

47-5081 Helpers--Extraction Workers



Help extraction craft workers, such as earth drillers, blasters and explosives workers, derrick operators, and mining machine operators, by performing duties of lesser skill. Duties include supplying equipment or cleaning work area.

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 17.95
2014 Estimated Employment:	63
2024 Projected Employment:	63
Growth Rate, 2014-2024:	0.0%
Annual Openings:	1

Industry	2014 Share	2024 Share
237 Heavy and Civil Engineering Construction	88.9%	88.9%
Self-Employed Workers	1.6%	1.6%
213 Support Activities for Mining	n	n
5413 Architectural and Engineering Services	n	n

47-5099 Extraction Workers, All Other



All extraction workers not listed separately.

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
212 Mining (except Oil and Gas)	n	n
213 Support Activities for Mining	n	n

49-1011 First-Line Supervisors of Mechanics, Installers, and Repairers



Supervise and coordinate the activities of mechanics, installers, and repairers. *Examples: Marine Service Manager; Ground Crew Chief; Engine Repair Supervisor*

Training Category: High School | < 5 yrs | none

2015 Average Wage:	\$ 33.69
2014 Estimated Employment:	2,026
2024 Projected Employment:	2,109
Growth Rate, 2014-2024:	4.1%
Annual Openings:	48

Industry		2014 Share	2024 Share
441	Motor Vehicle and Parts Dealers	14.6%	14.8%
811	Repair and Maintenance	12.3%	12.7%
221	Utilities	7.0%	6.0%
517	Telecommunications	5.4%	4.6%
423	Merchant Wholesalers, Durable Goods	4.8%	4.8%
238	Specialty Trade Contractors	4.1%	4.3%

49-2011 Computer, Automated Teller, and Office Machine Repairers



Repair, maintain, or install computers, word processing systems, automated teller machines, and electronic office machines, such as duplicating and fax machines. *Examples: ATM Specialist; Computer Installer*

Training Category: Some College | none | Short OJT

2015 Average Wage:	\$ 20.98
2014 Estimated Employment:	865
2024 Projected Employment:	915
Growth Rate, 2014-2024:	5.8%
Annual Openings:	22

Industry		2014 Share	2024 Share
443	Electronics and Appliance Stores	18.7%	18.5%
423	Merchant Wholesalers, Durable Goods	17.6%	16.7%
811	Repair and Maintenance	15.8%	15.1%
425	Electronic Markets and Agents/Brokers	14.3%	15.3%
	Self-Employed Workers	14.0%	14.3%
5415	Computer Systems Design and Rel Services	9.3%	10.3%

49-2021 Radio, Cellular, and Tower Equipment Installers and Repairs



Test or repair mobile or stationary radio transmitting and receiving equipment and two-way radio communications systems used in ship-to-shore communications and found in service and emergency vehicles.

Training Category: Associate | none | Moderate OJT

2015 Average Wage:	\$ 23.55
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
443	Electronics and Appliance Stores	n	n
517	Telecommunications	n	n
811	Repair and Maintenance	n	n
	Local Government, ex. Education	n	n

49-2022 Telecommunications Equipment Installers and Repairers, Except Line Installers



Set-up, rearrange, or remove switching and dialing equipment used in central offices. Service or repair telephones and other communication equipment on customers' property. May install equipment in new locations or install wiring and telephone jacks in buildings under construction. *Examples: Central Office Equipment Installer; Electronics Installer; Exchange Mechanic*

Training Category: Postsecondary | none | Moderate OJT

2015 Average Wage:	\$ 31.81
2014 Estimated Employment:	1,222
2024 Projected Employment:	1,137
Growth Rate, 2014-2024:	-7.0%
Annual Openings:	11

Industry		2014 Share	2024 Share
517	Telecommunications	83.9%	81.8%
423	Merchant Wholesalers, Durable Goods	3.6%	3.8%
622	Hospitals	2.5%	2.8%
5412	Accounting and Bookkeeping Services	2.1%	2.4%
	Self-Employed Workers	1.6%	1.8%
238	Specialty Trade Contractors	n	n

49-2091 Avionics Technicians



Install, inspect, test, adjust, or repair avionics equipment, such as radar, radio, navigation, and missile control systems in aircraft or space vehicles. *Examples: Aircraft Electrician; Automatic Pilot Mechanic*

Training Category: Associate | none | none

2015 Average Wage:	\$ 29.16
2014 Estimated Employment:	89
2024 Projected Employment:	89
Growth Rate, 2014-2024:	0.0%
Annual Openings:	2

Industry	2014 Share	2024 Share
Federal Government, ex. Postal Service	4.5%	4.5%
334 Computer and Electronic Product Mfg	n	n
481 Air Transportation	n	n
488 Support Activities for Transportation	n	n

49-2092 Electric Motor, Power Tool, and Related Repairers



Repair, maintain, or install electric motors, wiring, or switches. *Examples: Armature Winder; Generator Mechanic; Electric Golf Cart Repairer*

Training Category: Postsecondary | none | Long OJT

2015 Average Wage:	\$ 26.61
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
221 Utilities	n	n
423 Merchant Wholesalers, Durable Goods	n	n
444 Building Material & Garden Supply Stores	n	n
6113 Colleges and Universities	n	n
713 Amusement, Gambling & Recreation Ind	n	n

49-2093 Electrical and Electronics Installers and Repairers, Transportation Equipment



Install, adjust, or maintain mobile electronics communication equipment, including sound, sonar, security, navigation, and surveillance systems on trains, watercraft, or other mobile equipment. *Example: Locomotive Electrician*

Training Category: Postsecondary | none | Long OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	39
2024 Projected Employment:	40
Growth Rate, 2014-2024:	2.6%
Annual Openings:	1

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	28.2%	30.0%
334 Computer and Electronic Product Mfg	n	n
423 Merchant Wholesalers, Durable Goods	n	n

49-2094 Electrical and Electronics Repairers, Commercial and Industrial Equipment



Repair, test, adjust, or install electronic equipment, such as industrial controls, transmitters, and antennas. *Examples: Missile Pad Mechanic; Amplifier Mechanic*

Training Category: Postsecondary | none | Long OJT

2015 Average Wage:	\$ 27.36
2014 Estimated Employment:	292
2024 Projected Employment:	308
Growth Rate, 2014-2024:	5.5%
Annual Openings:	7

Industry	2014 Share	2024 Share
423 Merchant Wholesalers, Durable Goods	38.4%	40.9%
811 Repair and Maintenance	17.5%	16.9%
333 Machinery Manufacturing	13.7%	12.7%
425 Electronic Markets and Agents/Brokers	9.6%	10.1%
Federal Government, ex. Postal Service	3.8%	3.3%
334 Computer and Electronic Product Mfg	n	n

49-2095 Electrical and Electronics Repairers, Powerhouse, Substation, and Relay



Inspect, test, repair, or maintain electrical equipment in generating stations, substations, and in-service relays. *Examples: Powerhouse Electrician; Relay Technician; Power Transformer Repairer*

Training Category: Postsecondary | none | Long OJT

2015 Average Wage:	\$ 34.93
2014 Estimated Employment:	45
2024 Projected Employment:	40
Growth Rate, 2014-2024:	-11.1%
Annual Openings:	1

Industry		2014 Share	2024 Share
221	Utilities	n	n
5613	Employment Services	n	n

49-2096 Electronic Equipment Installers and Repairers, Motor Vehicles



Install, diagnose, or repair communications, sound, security, or navigation equipment in motor vehicles. *Examples: Auto Phone Installer; Automotive Electrician*

Training Category: Postsecondary | none | Short OJT

2015 Average Wage:	\$ 17.16
2014 Estimated Employment:	44
2024 Projected Employment:	24
Growth Rate, 2014-2024:	-45.5%
Annual Openings:	1

Industry		2014 Share	2024 Share
443	Electronics and Appliance Stores	n	n
6113	Colleges and Universities	n	n

49-2097 Electronic Home Entertainment Equipment Installers and Repairers



Repair, adjust, or install audio or television receivers, stereo systems, camcorders, video systems, or other electronic home entertainment equipment. *Examples: Electric Organ Technician; Television Mechanic; Satellite Dish Installer*

Training Category: Postsecondary | none | Short OJT

2015 Average Wage:	\$ 22.86
2014 Estimated Employment:	188
2024 Projected Employment:	202
Growth Rate, 2014-2024:	7.5%
Annual Openings:	4

Industry		2014 Share	2024 Share
425	Electronic Markets and Agents/Brokers	42.0%	44.1%
811	Repair and Maintenance	35.6%	33.7%
238	Specialty Trade Contractors	11.2%	11.9%
	Self-Employed Workers	9.0%	8.4%
443	Electronics and Appliance Stores	n	n
517	Telecommunications	n	n

49-2098 Security and Fire Alarm Systems Installers



Install, program, maintain, and repair security and fire alarm wiring and equipment. Ensure that work is in accordance with relevant codes. *Examples: Fire Alarm Installer; Burglar Alarm Mechanic*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 23.45
2014 Estimated Employment:	236
2024 Projected Employment:	292
Growth Rate, 2014-2024:	23.7%
Annual Openings:	12

Industry		2014 Share	2024 Share
5616	Investigation and Security Services	67.0%	69.9%
238	Specialty Trade Contractors	20.8%	19.2%
	Self-Employed Workers	4.7%	3.8%
423	Merchant Wholesalers, Durable Goods	4.2%	4.5%
	Local Government, ex. Education	1.7%	1.4%
425	Electronic Markets and Agents/Brokers	n	n

49-3011 Aircraft Mechanics and Service Technicians



Diagnose, adjust, repair, or overhaul aircraft engines and assemblies, such as hydraulic and pneumatic systems. Include helicopter and aircraft engine specialists.

Training Category: Postsecondary | none | none

2015 Average Wage:	\$ 29.25
2014 Estimated Employment:	245
2024 Projected Employment:	255
Growth Rate, 2014-2024:	4.1%
Annual Openings:	7

Industry		2014 Share	2024 Share
488	Support Activities for Transportation	46.5%	49.4%
	Federal Government, ex. Postal Service	20.8%	19.6%
481	Air Transportation	19.6%	18.0%
	Self-Employed Workers	1.2%	1.2%
492	Couriers and Messengers	n	n
811	Repair and Maintenance	n	n

49-3021 Automotive Body and Related Repairers



Repair and refinish automotive vehicle bodies and straighten vehicle frames. *Examples: Auto Body Customizer; Collision Mechanic; Frame Straightener*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 19.12
2014 Estimated Employment:	758
2024 Projected Employment:	814
Growth Rate, 2014-2024:	7.4%
Annual Openings:	23

Industry		2014 Share	2024 Share
811	Repair and Maintenance	79.8%	79.7%
441	Motor Vehicle and Parts Dealers	13.5%	13.5%
	Self-Employed Workers	6.1%	6.1%
	State Government, ex. Education and Hospitals	0.3%	0.3%
485	Transit and Ground Passenger Transport	n	n
	Local Government, ex. Education	n	n

49-3022 Automotive Glass Installers and Repairers



Replace or repair broken windshields and window glass in motor vehicles. *Examples: Auto Glass Mechanic; Windshield Installer; Auto Glass Fitter*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 20.95
2014 Estimated Employment:	49
2024 Projected Employment:	51
Growth Rate, 2014-2024:	4.1%
Annual Openings:	1

Industry		2014 Share	2024 Share
811	Repair and Maintenance	83.7%	84.3%
	Self-Employed Workers	16.3%	15.7%

49-3023 Automotive Service Technicians and Mechanics



Diagnose, adjust, repair, or overhaul automotive vehicles. *Examples: Auto Brake Mechanic; Fuel Injection Servicer; Auto Transmission Specialist*

Training Category: Postsecondary | none | Short OJT

2015 Average Wage:	\$ 21.51
2014 Estimated Employment:	4,213
2024 Projected Employment:	4,372
Growth Rate, 2014-2024:	3.8%
Annual Openings:	129

Industry		2014 Share	2024 Share
441	Motor Vehicle and Parts Dealers	42.7%	42.2%
811	Repair and Maintenance	37.0%	37.6%
	Self-Employed Workers	12.1%	12.6%
447	Gasoline Stations	1.4%	1.1%
452	General Merchandise Stores	1.2%	1.1%
488	Support Activities for Transportation	n	n

49-3031 Bus and Truck Mechanics and Diesel Engine Specialists



Diagnose, adjust, repair, or overhaul trucks, buses, and all types of diesel engines. *Examples: Tractor Trailer Mechanic; Diesel Mechanic; Farm Equipment Engine Mechanic*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 22.15
2014 Estimated Employment:	844
2024 Projected Employment:	963
Growth Rate, 2014-2024:	14.1%
Annual Openings:	26

Industry	2014 Share	2024 Share
Local Government, ex. Education	16.1%	18.0%
423 Merchant Wholesalers, Durable Goods	13.6%	14.5%
484 Truck Transportation	12.1%	11.3%
485 Transit and Ground Passenger Transport	6.9%	6.9%
562 Waste Management and Remediation Service	6.4%	6.2%
811 Repair and Maintenance	6.2%	6.8%

49-3041 Farm Equipment Mechanics and Service Technicians



Diagnose, adjust, repair, or overhaul farm machinery and vehicles, such as tractors, harvesters, dairy equipment, and irrigation systems. *Examples: Irrigation Equipment Mechanic; Dairy Equipment Installer*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 22.35
2014 Estimated Employment:	79
2024 Projected Employment:	84
Growth Rate, 2014-2024:	6.3%
Annual Openings:	2

Industry	2014 Share	2024 Share
423 Merchant Wholesalers, Durable Goods	49.4%	50.0%
444 Building Material & Garden Supply Stores	30.4%	29.8%
111 Crop Production	8.9%	9.5%
Self-Employed Workers	2.5%	2.4%
115 Agriculture & Forestry Support Activity	n	n
445 Food and Beverage Stores	n	n

49-3042 Mobile Heavy Equipment Mechanics, Except Engines



Diagnose, adjust, repair, or overhaul mobile mechanical, hydraulic, and pneumatic equipment, such as cranes, bulldozers, graders, and conveyors, used in construction, logging, and surface mining. *Examples: Construction Equipment Mechanic; Fork Lift Mechanic; Bulldozer Mechanic*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 22.90
2014 Estimated Employment:	468
2024 Projected Employment:	483
Growth Rate, 2014-2024:	3.2%
Annual Openings:	13

Industry	2014 Share	2024 Share
423 Merchant Wholesalers, Durable Goods	28.0%	27.7%
237 Heavy and Civil Engineering Construction	11.5%	11.2%
532 Rental and Leasing Services	9.6%	11.0%
238 Specialty Trade Contractors	8.6%	8.5%
State Government, ex. Education and Hospitals	7.1%	7.3%
113 Forestry and Logging	n	n

49-3051 Motorboat Mechanics and Service Technicians



Repair and adjust electrical and mechanical equipment of gasoline or diesel powered inboard or inboard-outboard boat engines. *Example: Outboard Motor Mechanic*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 20.18
2014 Estimated Employment:	201
2024 Projected Employment:	208
Growth Rate, 2014-2024:	3.5%
Annual Openings:	5

Industry	2014 Share	2024 Share
441 Motor Vehicle and Parts Dealers	44.8%	42.3%
713 Amusement, Gambling & Recreation Ind	42.8%	45.7%
Self-Employed Workers	8.5%	8.2%
811 Repair and Maintenance	3.0%	2.9%
State Government, ex. Education and Hospitals	1.0%	1.0%

49-3052 Motorcycle Mechanics



Diagnose, adjust, repair, or overhaul motorcycles, scooters, mopeds, dirt bikes, or similar motorized vehicles. *Examples: Motor Scooter Mechanic; Motorcycle Repairer*

Training Category: Postsecondary | none | Short OJT

2015 Average Wage:	\$ 20.29
2014 Estimated Employment:	221
2024 Projected Employment:	226
Growth Rate, 2014-2024:	2.3%
Annual Openings:	4

Industry	2014 Share	2024 Share
441 Motor Vehicle and Parts Dealers	86.0%	86.7%
Self-Employed Workers	8.6%	8.0%
811 Repair and Maintenance	n	n

49-3053 Outdoor Power Equipment and Other Small Engine Mechanics



Diagnose, adjust, repair, or overhaul small engines used to power lawn mowers, chain saws, and related equipment. *Examples: Chainsaw Mechanic; Lawn Mower Repairer; Snowmobile Mechanic*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 17.30
2014 Estimated Employment:	306
2024 Projected Employment:	320
Growth Rate, 2014-2024:	4.6%
Annual Openings:	7

Industry	2014 Share	2024 Share
444 Building Material & Garden Supply Stores	29.1%	29.7%
713 Amusement, Gambling & Recreation Ind	13.1%	14.1%
Self-Employed Workers	8.5%	7.8%
441 Motor Vehicle and Parts Dealers	n	n
5617 Services to Buildings and Dwellings	n	n
811 Repair and Maintenance	n	n

49-3091 Bicycle Repairers



Repair and service bicycles. *Example: Bicycle Mechanic*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 11.94
2014 Estimated Employment:	135
2024 Projected Employment:	168
Growth Rate, 2014-2024:	24.4%
Annual Openings:	8

Industry	2014 Share	2024 Share
451 Sporting Goods/Hobby/Book/Music Stores	95.6%	95.8%
Self-Employed Workers	n	n
452 General Merchandise Stores	n	n

49-3092 Recreational Vehicle Service Technicians



Diagnose, inspect, adjust, repair, or overhaul recreational vehicles including travel trailers. May specialize in maintaining gas, electrical, hydraulic, plumbing, or chassis/towing systems as well as repairing generators, appliances, and interior components. Include workers who perform customized van conversions. *Example: RV Mechanic*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 17.22
2014 Estimated Employment:	107
2024 Projected Employment:	109
Growth Rate, 2014-2024:	1.9%
Annual Openings:	4

Industry	2014 Share	2024 Share
441 Motor Vehicle and Parts Dealers	80.4%	78.0%
Self-Employed Workers	2.8%	3.7%
423 Merchant Wholesalers, Durable Goods	n	n
811 Repair and Maintenance	n	n

49-3093 Tire Repairers and Changers



Repair and replace tires. *Example: Tire Fixer*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 11.91
2014 Estimated Employment:	624
2024 Projected Employment:	609
Growth Rate, 2014-2024:	-2.4%
Annual Openings:	21

Industry	2014 Share	2024 Share
441 Motor Vehicle and Parts Dealers	78.4%	81.1%
447 Gasoline Stations	9.8%	7.1%
452 General Merchandise Stores	5.5%	4.9%
Self-Employed Workers	3.4%	3.6%
423 Merchant Wholesalers, Durable Goods	2.2%	2.5%
811 Repair and Maintenance	0.8%	0.8%

49-9011 Mechanical Door Repairers



Install, service, or repair automatic door mechanisms and hydraulic doors. Includes garage door mechanics. *Example: Automatic Door Mechanic*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 20.78
2014 Estimated Employment:	65
2024 Projected Employment:	70
Growth Rate, 2014-2024:	7.7%
Annual Openings:	3

Industry	2014 Share	2024 Share
238 Specialty Trade Contractors	100.0%	100.0%

49-9012 Control and Valve Installers and Repairers, Except Mechanical Door



Install, repair, and maintain mechanical regulating and controlling devices, such as electric meters, gas regulators, thermostats, safety and flow valves, and other mechanical governors. *Examples: Gas Meter Prover; Thermostat Repairer*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 26.18
2014 Estimated Employment:	160
2024 Projected Employment:	157
Growth Rate, 2014-2024:	-1.9%
Annual Openings:	6

Industry	2014 Share	2024 Share
221 Utilities	56.3%	52.2%
Local Government, ex. Education	11.3%	12.1%
423 Merchant Wholesalers, Durable Goods	n	n
5413 Architectural and Engineering Services	n	n
5616 Investigation and Security Services	n	n
811 Repair and Maintenance	n	n

49-9021 Heating, Air Conditioning, and Refrigeration Mechanics and Installers



Install or repair heating, central air conditioning, or refrigeration systems, including oil burners, hot-air furnaces, and heating stoves. *Examples: Furnace Converter; Gas Furnace Installer; Oil Burner Repairer*

Training Category: Postsecondary | none | Long OJT

2015 Average Wage:	\$ 25.00
2014 Estimated Employment:	1,394
2024 Projected Employment:	1,416
Growth Rate, 2014-2024:	1.6%
Annual Openings:	23

Industry	2014 Share	2024 Share
238 Specialty Trade Contractors	35.3%	39.5%
454 Nonstore Retailers	28.6%	22.6%
425 Electronic Markets and Agents/Brokers	8.0%	9.0%
Self-Employed Workers	7.8%	8.0%
424 Merchant Wholesalers, Nondurable Goods	3.2%	3.3%
5413 Architectural and Engineering Services	n	n

49-9031 Home Appliance Repairers



Repair, adjust, or install all types of electric or gas household appliances, such as refrigerators, washers, dryers, and ovens. *Examples: Window Air Conditioner Mechanic; Vacuum Cleaner Repairer; Washing Machine Installer*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 19.35
2014 Estimated Employment:	114
2024 Projected Employment:	120
Growth Rate, 2014-2024:	5.3%
Annual Openings:	4

Industry	2014 Share	2024 Share
Self-Employed Workers	26.3%	25.0%
811 Repair and Maintenance	23.7%	21.7%
443 Electronics and Appliance Stores	21.1%	20.8%
5617 Services to Buildings and Dwellings	14.9%	15.0%
453 Miscellaneous Store Retailers	7.0%	9.2%
5613 Employment Services	3.5%	4.2%

49-9041 Industrial Machinery Mechanics



Repair, install, adjust, or maintain industrial production and processing machinery or refinery and pipeline distribution systems. *Examples: Conveyor Belt Installer; Turbine Mechanic; Hydroelectric Machinery Mechanic*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 26.19
2014 Estimated Employment:	2,168
2024 Projected Employment:	2,591
Growth Rate, 2014-2024:	19.5%
Annual Openings:	98

Industry	2014 Share	2024 Share
335 Electrical Equipment and Appliances	10.4%	9.2%
811 Repair and Maintenance	9.8%	10.2%
332 Fabricated Metal Product Manufacturing	8.6%	9.4%
333 Machinery Manufacturing	7.4%	7.5%
326 Plastics & Rubber Products Manufacturing	6.8%	6.7%
423 Merchant Wholesalers, Durable Goods	6.4%	6.6%

49-9043 Maintenance Workers, Machinery



Lubricate machinery, change parts, or perform other routine machinery maintenance. *Examples: Grease Packer; Machine Oiler*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 19.35
2014 Estimated Employment:	208
2024 Projected Employment:	230
Growth Rate, 2014-2024:	10.6%
Annual Openings:	5

Industry	2014 Share	2024 Share
326 Plastics & Rubber Products Manufacturing	30.3%	29.6%
423 Merchant Wholesalers, Durable Goods	27.4%	28.3%
311 Food Manufacturing	n	n
313 Textile Mills	n	n
331 Primary Metal Manufacturing	n	n
333 Machinery Manufacturing	n	n

49-9044 Millwrights



Install, dismantle, or move machinery and heavy equipment according to layout plans, blueprints, or other drawings. *Examples: Machine Erector; Machine Rigger; Machinery Dismantler*

Training Category: High School | none | Apprenticeship

2015 Average Wage:	\$ 26.56
2014 Estimated Employment:	110
2024 Projected Employment:	122
Growth Rate, 2014-2024:	10.9%
Annual Openings:	3

Industry	2014 Share	2024 Share
221 Utilities	n	n
236 Construction of Buildings	n	n
238 Specialty Trade Contractors	n	n
321 Wood Product Manufacturing	n	n
322 Paper Manufacturing	n	n
333 Machinery Manufacturing	n	n

49-9051 Electrical Power-Line Installers and Repairers



Install or repair cables or wires used in electrical power or distribution systems. May erect poles and light or heavy duty transmission towers. *Examples: Pole Climber; High Tension Tester; Electric Utility Wire Stretcher*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 36.14
2014 Estimated Employment:	804
2024 Projected Employment:	838
Growth Rate, 2014-2024:	4.2%
Annual Openings:	35

Industry		2014 Share	2024 Share
221	Utilities	60.6%	51.8%
237	Heavy and Civil Engineering Construction	32.5%	40.9%
	Local Government, ex. Education	1.9%	1.9%
	Self-Employed Workers	1.9%	1.8%
238	Specialty Trade Contractors	n	n
5613	Employment Services	n	n

49-9052 Telecommunications Line Installers and Repairers



String and repair telephone and television cable, including fiber optics and other equipment for transmitting messages or television programming. *Examples: Telecommunications Cable Splicer; Telecommunications Wire Stretcher; Cable Television Installer*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 28.27
2014 Estimated Employment:	545
2024 Projected Employment:	540
Growth Rate, 2014-2024:	-0.9%
Annual Openings:	10

Industry		2014 Share	2024 Share
517	Telecommunications	36.7%	28.9%
238	Specialty Trade Contractors	33.8%	38.5%
221	Utilities	n	n
5416	Management & Technical Consulting Svc	n	n
811	Repair and Maintenance	n	n
813	Membership Organizations & Associations	n	n

49-9062 Medical Equipment Repairers



Test, adjust, or repair biomedical or electromedical equipment. *Examples: Biomedical Equipment Technician; Hearing Aid Mechanic; Surgical Instrument Mechanic*

Training Category: Associate | none | Moderate OJT

2015 Average Wage:	\$ 26.23
2014 Estimated Employment:	147
2024 Projected Employment:	158
Growth Rate, 2014-2024:	7.5%
Annual Openings:	4

Industry		2014 Share	2024 Share
622	Hospitals	37.4%	36.7%
	Self-Employed Workers	12.2%	11.4%
423	Merchant Wholesalers, Durable Goods	n	n
532	Rental and Leasing Services	n	n
621	Ambulatory Health Care Services	n	n
811	Repair and Maintenance	n	n

49-9063 Musical Instrument Repairers and Tuners



Repair percussion, stringed, reed, or wind instruments. May specialize in one area, such as piano tuning. *Examples: Piano Tuner; Violin Repairer; Tone Regulator*

Training Category: High School | none | Apprenticeship

2015 Average Wage:	\$ 19.43
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
	Self-Employed Workers	n	n
451	Sporting Goods/Hobby/Book/Music Stores	n	n
6113	Colleges and Universities	n	n
811	Repair and Maintenance	n	n

49-9064 Watch Repairers



Repair, clean, and adjust mechanisms of timing instruments, such as watches and clocks. Include watchmakers.

Training Category: High School | none | Long OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
	Self-Employed Workers	n	n
453	Miscellaneous Store Retailers	n	n

49-9069 Precision Instrument and Equipment Repairers, All Other



All precision instrument and equipment repairers not listed separately. *Examples: Laboratory Equipment Installer; Gyro Mechanic; Meteorological Equipment Repairer*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 31.20
2014 Estimated Employment:	143
2024 Projected Employment:	146
Growth Rate, 2014-2024:	2.1%
Annual Openings:	3

Industry		2014 Share	2024 Share
811	Repair and Maintenance	28.0%	27.4%
	Self-Employed Workers	9.1%	8.9%
325	Chemical Manufacturing	n	n
332	Fabricated Metal Product Manufacturing	n	n
334	Computer and Electronic Product Mfg	n	n
423	Merchant Wholesalers, Durable Goods	n	n

49-9071 Maintenance and Repair Workers, General



Perform work involving the skills of two or more maintenance or craft occupations to keep machines, mechanical equipment, or the structure of an establishment in repair. Duties may involve pipe fitting; boiler making; insulating; welding; machining; carpentry; repairing electrical or mechanical equipment; installing, aligning, and balancing new equipment; and repairing buildings, floors, or stairs. *Example: Building Maintenance Mechanic*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 19.51
2014 Estimated Employment:	4,623
2024 Projected Employment:	4,996
Growth Rate, 2014-2024:	8.1%
Annual Openings:	158

Industry		2014 Share	2024 Share
531	Real Estate	19.5%	19.9%
721	Accommodation	10.5%	10.7%
	Local Government, ex. Education	5.6%	5.5%
813	Membership Organizations & Associations	5.3%	5.1%
623	Nursing and Residential Care Facilities	4.6%	5.5%
713	Amusement, Gambling & Recreation Ind	4.3%	4.4%

49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers



Install, service, adjust, or repair coin, vending, or amusement machines including video games, juke boxes, pinball machines, or slot machines. *Examples: Cigarette Machine Mechanic; Slot Machine Mechanic; Video Game Mechanic*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 17.59
2014 Estimated Employment:	41
2024 Projected Employment:	37
Growth Rate, 2014-2024:	-9.8%
Annual Openings:	0

Industry		2014 Share	2024 Share
	Self-Employed Workers	14.6%	16.2%
339	Miscellaneous Manufacturing	n	n
424	Merchant Wholesalers, Nondurable Goods	n	n
454	Nonstore Retailers	n	n
713	Amusement, Gambling & Recreation Ind	n	n
722	Food Services and Drinking Places	n	n

49-9092 Commercial Divers



Work below surface of water, using scuba gear to inspect, repair, remove, or install equipment and structures. *Examples: Marine Diver; Scuba Diver; Skin Diver*

Training Category: Postsecondary | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	36
2024 Projected Employment:	44
Growth Rate, 2014-2024:	22.2%
Annual Openings:	1

Industry	2014 Share	2024 Share
Self-Employed Workers	13.9%	11.4%
221 Utilities	n	n
237 Heavy and Civil Engineering Construction	n	n
5619 Other Support Services	n	n
6113 Colleges and Universities	n	n

49-9094 Locksmiths and Safe Repairers



Repair and open locks; make keys; change locks and safe combinations; and install and repair safes. *Examples: Key Maker; Vault Service Mechanic; Lock Expert*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 24.46
2014 Estimated Employment:	105
2024 Projected Employment:	101
Growth Rate, 2014-2024:	-3.8%
Annual Openings:	5

Industry	2014 Share	2024 Share
5616 Investigation and Security Services	71.4%	72.3%
Self-Employed Workers	14.3%	15.8%
6111 Elementary and Secondary Schools	n	n
6113 Colleges and Universities	n	n

49-9095 Manufactured Building and Mobile Home Installers



Move or install mobile homes or prefabricated buildings. *Examples: Mobile Home Mechanic; Housetrailer Servicer*

Training Category: High School | < 5 yrs | Short OJT

2015 Average Wage:	\$ 19.38
2014 Estimated Employment:	52
2024 Projected Employment:	36
Growth Rate, 2014-2024:	-30.8%
Annual Openings:	1

Industry	2014 Share	2024 Share
Self-Employed Workers	15.4%	25.0%
321 Wood Product Manufacturing	n	n
453 Miscellaneous Store Retailers	n	n
531 Real Estate	n	n

49-9096 Riggers



Set up or repair rigging for construction projects, manufacturing plants, logging yards, ships and shipyards, or for the entertainment industry. *Examples: Crane Rigger; Yard Rigger*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 18.60
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
713 Amusement, Gambling & Recreation Ind	n	n

49-9097 Signal and Track Switch Repairers



Install, inspect, test, maintain, or repair electric gate crossings, signals, signal equipment, track switches, section lines, or intercommunications systems within a railroad system.

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
482 Rail Transportation	n	n

49-9098 Helpers--Installation, Maintenance, and Repair Workers



Help installation, maintenance, and repair workers in maintenance, parts replacement, and repair of vehicles, industrial machinery, and electrical and electronic equipment. Perform duties, such as furnishing tools, materials, and supplies to other workers; cleaning work area, machines, and tools; and holding materials or tools for other workers. *Examples: Mechanic's Helper; Diver's Helper; Blacksmith's Helper*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 12.68
2014 Estimated Employment:	532
2024 Projected Employment:	564
Growth Rate, 2014-2024:	6.0%
Annual Openings:	20

Industry	2014 Share	2024 Share
811 Repair and Maintenance	18.2%	18.3%
441 Motor Vehicle and Parts Dealers	14.7%	14.9%
238 Specialty Trade Contractors	9.4%	9.6%
713 Amusement, Gambling & Recreation Ind	7.9%	8.3%
237 Heavy and Civil Engineering Construction	5.6%	6.2%
481 Air Transportation	n	n

49-9099 Installation, Maintenance, and Repair Workers, All Other



All installation, maintenance, and repair workers and helpers not listed separately. *Examples: Blacksmith; Cooper; Gunsmith*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 20.20
2014 Estimated Employment:	803
2024 Projected Employment:	872
Growth Rate, 2014-2024:	8.6%
Annual Openings:	19

Industry	2014 Share	2024 Share
423 Merchant Wholesalers, Durable Goods	14.3%	14.2%
Self-Employed Workers	12.2%	11.6%
238 Specialty Trade Contractors	7.4%	7.0%
441 Motor Vehicle and Parts Dealers	5.6%	5.2%
451 Sporting Goods/Hobby/Book/Music Stores	n	n
5613 Employment Services	n	n

51-1011 First-Line Supervisors of Production and Operating Workers



Supervise and coordinate the activities of production and operating workers, such as inspectors, precision workers, machine setters and operators, assemblers, fabricators, and plant and system operators. *Examples: Laundromat Manager; Station Chief; Assembly Line Supervisor*

Training Category: High School | < 5 yrs | none

2015 Average Wage:	\$ 29.80
2014 Estimated Employment:	2,792
2024 Projected Employment:	2,816
Growth Rate, 2014-2024:	0.9%
Annual Openings:	46

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	15.4%	16.6%
334 Computer and Electronic Product Mfg	14.3%	13.7%
326 Plastics & Rubber Products Manufacturing	7.5%	7.4%
333 Machinery Manufacturing	6.7%	6.5%
335 Electrical Equipment and Appliances	4.8%	4.3%
325 Chemical Manufacturing	4.3%	4.7%

51-2011 Aircraft Structure, Surfaces, Rigging, and Systems Assemblers



Wind wire coils used in electrical components, such as resistors and transformers, and in electrical equipment and instruments, such as field cores, bobbins, armature cores, electrical motors, generators, and control equipment. *Examples: Aircraft Riveter; Skin Installer*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
336 Transportation Equipment Manufacturing	n	n

51-2021 Coil Winders, Tapers, and Finishers



Wind wire coils used in electrical components, such as resistors and transformers, and in electrical equipment and instruments, such as field cores, bobbins, armature cores, electrical motors, generators, and control equipment. *Examples: Coil Builder; Motor Winder; Wire Coiler*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 16.09
2014 Estimated Employment:	129
2024 Projected Employment:	125
Growth Rate, 2014-2024:	-3.1%
Annual Openings:	2

Industry	2014 Share	2024 Share
334 Computer and Electronic Product Mfg	56.6%	57.6%
335 Electrical Equipment and Appliances	n	n
5613 Employment Services	n	n

51-2022 Electrical and Electronic Equipment Assemblers



Assemble or modify electrical or electronic equipment, such as computers, test equipment telemetering systems, electric motors, and batteries. *Examples: Anode Builder; Battery Builder; Industrial Equipment Wirer*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 15.51
2014 Estimated Employment:	2,051
2024 Projected Employment:	2,045
Growth Rate, 2014-2024:	-0.3%
Annual Openings:	25

Industry	2014 Share	2024 Share
334 Computer and Electronic Product Mfg	48.2%	46.9%
335 Electrical Equipment and Appliances	29.5%	27.1%
5613 Employment Services	13.1%	16.5%
333 Machinery Manufacturing	4.3%	4.2%
332 Fabricated Metal Product Manufacturing	n	n
551 Management of Companies and Enterprises	n	n

51-2023 Electromechanical Equipment Assemblers



Assemble or modify electromechanical equipment or devices, such as servomechanisms, gyros, dynamometers, magnetic drums, tape drives, brakes, control linkage, actuators, and appliances. *Examples: Appliance Assembler; Vending Machine Assembler*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 17.38
2014 Estimated Employment:	1,044
2024 Projected Employment:	1,053
Growth Rate, 2014-2024:	0.9%
Annual Openings:	14

Industry	2014 Share	2024 Share
333 Machinery Manufacturing	47.8%	45.9%
334 Computer and Electronic Product Mfg	32.9%	31.8%
5613 Employment Services	11.9%	14.4%
339 Miscellaneous Manufacturing	n	n
423 Merchant Wholesalers, Durable Goods	n	n
425 Electronic Markets and Agents/Brokers	n	n

51-2031 Engine and Other Machine Assemblers



Construct, assemble, or rebuild machines, such as engines, turbines, and similar equipment used in such industries as construction, extraction, textiles, and paper manufacturing. *Examples: Machine Builder; Turbine Assembler*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 21.85
2014 Estimated Employment:	164
2024 Projected Employment:	166
Growth Rate, 2014-2024:	1.2%
Annual Openings:	3

Industry	2014 Share	2024 Share
333 Machinery Manufacturing	90.2%	89.8%
221 Utilities	n	n
336 Transportation Equipment Manufacturing	n	n
445 Food and Beverage Stores	n	n
5413 Architectural and Engineering Services	n	n

51-2041 Structural Metal Fabricators and Fitters



Fabricate, lay out, position, align, and fit parts of structural metal products. *Examples: Manufacturing Ornamental Metal Worker; Metal Box Maker; Protector Plate Attacher*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 21.36
2014 Estimated Employment:	353
2024 Projected Employment:	382
Growth Rate, 2014-2024:	8.2%
Annual Openings:	9

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	77.3%	79.3%
238 Specialty Trade Contractors	n	n
333 Machinery Manufacturing	n	n
335 Electrical Equipment and Appliances	n	n
336 Transportation Equipment Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n

51-2091 Fiberglass Laminators and Fabricators



Laminate layers of fiberglass on molds to form boat decks and hulls, bodies for golf carts, automobiles, or other products. *Examples: Fiberglass Boat Builder, Fiberglass Ski Maker*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 14.79
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
326 Plastics & Rubber Products Manufacturing	n	n

51-2092 Team Assemblers



Work as part of a team having responsibility for assembling an entire product or component of a product. Team assemblers can perform all tasks conducted by the team in the assembly process and rotate through all or most of them rather than being assigned to a specific task on a permanent basis. *Examples: Team Assembly Line Machine Operator, Lead Team Assembler*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 16.58
2014 Estimated Employment:	4,084
2024 Projected Employment:	4,189
Growth Rate, 2014-2024:	2.6%
Annual Openings:	98

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	18.2%	19.2%
334 Computer and Electronic Product Mfg	17.4%	16.5%
333 Machinery Manufacturing	14.8%	14.3%
5613 Employment Services	11.5%	13.9%
339 Miscellaneous Manufacturing	7.9%	7.3%
326 Plastics & Rubber Products Manufacturing	6.6%	6.3%

51-2093 Timing Device Assemblers and Adjusters



Perform precision assembling or adjusting, within narrow tolerances, of timing devices, such as watches, clocks, or chronometers.

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
335	Electrical Equipment and Appliances	n	n

51-2099 Assemblers and Fabricators, All Other



All assemblers and fabricators not listed separately. *Examples: Barrel Raiser; Automobile Assembler, except engines; Doll Maker*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 15.39
2014 Estimated Employment:	1,499
2024 Projected Employment:	1,621
Growth Rate, 2014-2024:	8.1%
Annual Openings:	44

Industry		2014 Share	2024 Share
5613	Employment Services	28.6%	33.2%
333	Machinery Manufacturing	10.1%	9.1%
334	Computer and Electronic Product Mfg	8.7%	7.8%
336	Transportation Equipment Manufacturing	5.3%	4.8%
332	Fabricated Metal Product Manufacturing	5.3%	5.2%
326	Plastics & Rubber Products Manufacturing	n	n

51-3011 Bakers



Mix and bake ingredients according to recipes to produce breads, rolls, cookies, cakes, pies, pastries, or other baked goods. *Examples: Cake Maker; Head Baker; Pastry Finisher*

Training Category: none | none | Long OJT

2015 Average Wage:	\$ 12.66
2014 Estimated Employment:	512
2024 Projected Employment:	561
Growth Rate, 2014-2024:	9.6%
Annual Openings:	16

Industry		2014 Share	2024 Share
311	Food Manufacturing	29.9%	27.6%
445	Food and Beverage Stores	19.0%	18.7%
722	Food Services and Drinking Places	18.2%	18.2%
452	General Merchandise Stores	14.8%	16.8%
	Self-Employed Workers	5.1%	5.5%
5613	Employment Services	n	n

51-3021 Butchers and Meat Cutters



Cut, trim, or prepare consumer-sized portions of meat for use or sale in retail establishments. *Examples: Carver; Meat Department Manager; Cleaver*

Training Category: none | none | Long OJT

2015 Average Wage:	\$ 16.84
2014 Estimated Employment:	677
2024 Projected Employment:	742
Growth Rate, 2014-2024:	9.6%
Annual Openings:	19

Industry		2014 Share	2024 Share
445	Food and Beverage Stores	92.9%	92.3%
452	General Merchandise Stores	5.0%	5.8%
	Self-Employed Workers	0.6%	0.5%
	Federal Government, ex. Postal Service	0.4%	0.4%
424	Merchant Wholesalers, Nondurable Goods	n	n

51-3022 Meat, Poultry, and Fish Cutters and Trimmers



Use hand tools to perform routine cutting and trimming of meat, poultry, and fish. *Examples: Calf Skinner; Eviscerator; Filleter*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 11.63
2014 Estimated Employment:	49
2024 Projected Employment:	52
Growth Rate, 2014-2024:	6.1%
Annual Openings:	1

Industry	2014 Share	2024 Share
311 Food Manufacturing	n	n
424 Merchant Wholesalers, Nondurable Goods	n	n
445 Food and Beverage Stores	n	n

51-3023 Slaughterers and Meat Packers



Work in slaughtering, meat packing, or wholesale establishments performing precision functions involving the preparation of meat. Work may include specialized slaughtering tasks, cutting standard or premium cuts of meat for marketing, making sausage, or wrapping meats.

Training Category: none | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	40
2024 Projected Employment:	43
Growth Rate, 2014-2024:	7.5%
Annual Openings:	1

Industry	2014 Share	2024 Share
445 Food and Beverage Stores	100.0%	100.0%

51-3091 Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders



Operate or tend food or tobacco roasting, baking, or drying equipment, including hearth ovens, kiln driers, roasters, char kilns, and vacuum drying equipment. *Examples: Coffee Roaster; Smokehouse Worker*

Training Category: none | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	40
2024 Projected Employment:	44
Growth Rate, 2014-2024:	10.0%
Annual Openings:	1

Industry	2014 Share	2024 Share
311 Food Manufacturing	n	n
424 Merchant Wholesalers, Nondurable Goods	n	n
445 Food and Beverage Stores	n	n
452 General Merchandise Stores	n	n
5613 Employment Services	n	n

51-3092 Food Batchmakers



Set up and operate equipment that mixes or blends ingredients used in the manufacturing of food products. Include candy makers and cheese makers. *Examples: Candy Maker; Honey Blender; Peanut Butter Maker*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 12.83
2014 Estimated Employment:	349
2024 Projected Employment:	382
Growth Rate, 2014-2024:	9.5%
Annual Openings:	11

Industry	2014 Share	2024 Share
311 Food Manufacturing	55.9%	51.1%
5613 Employment Services	38.4%	43.5%
Self-Employed Workers	0.9%	0.8%
424 Merchant Wholesalers, Nondurable Goods	n	n
445 Food and Beverage Stores	n	n
722 Food Services and Drinking Places	n	n

51-3093 Food Cooking Machine Operators and Tenders



Operate or tend cooking equipment, such as steam cooking vats, deep fry cookers, pressure cookers, kettles, and boilers, to prepare food products. *Examples: Doughnut Maker; Sausage Cooker; Potato Chip Fryer*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 15.26
2014 Estimated Employment:	37
2024 Projected Employment:	37
Growth Rate, 2014-2024:	0.0%
Annual Openings:	1

Industry		2014 Share	2024 Share
311	Food Manufacturing	97.3%	97.3%
	Self-Employed Workers	2.7%	2.7%

51-3099 Food Processing Workers, All Other



All food processing workers not listed separately. *Examples: Poultry Hanger; Yeast Maker*

Training Category: none | none | Moderate OJT

2015 Average Wage:	\$ 12.61
2014 Estimated Employment:	194
2024 Projected Employment:	237
Growth Rate, 2014-2024:	22.2%
Annual Openings:	8

Industry		2014 Share	2024 Share
5613	Employment Services	66.0%	67.9%
452	General Merchandise Stores	18.6%	19.0%
311	Food Manufacturing	13.9%	11.8%
	Self-Employed Workers	1.6%	1.3%

51-4011 Computer-Controlled Machine Tool Operators, Metal and Plastic



Operate computer-controlled machines or robots to perform one or more machine functions on metal or plastic work pieces. *Examples: Numerical Control Machine Operator; Robot Operator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 17.76
2014 Estimated Employment:	1,806
2024 Projected Employment:	2,258
Growth Rate, 2014-2024:	25.0%
Annual Openings:	100

Industry		2014 Share	2024 Share
332	Fabricated Metal Manufacturing	60.9%	62.9%
333	Machinery Manufacturing	14.8%	14.0%
334	Computer and Electronic Product Mfg	11.5%	10.8%
331	Primary Metal Manufacturing	5.8%	5.5%
326	Plastics & Rubber Products Manufacturing	n	n
336	Transportation Equipment Manufacturing	n	n

51-4012 Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic



Develop programs to control machining or processing of parts by automatic machine tools, equipment, or systems. *Examples: Tool Programmer; NC Programmer*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 28.07
2014 Estimated Employment:	159
2024 Projected Employment:	199
Growth Rate, 2014-2024:	25.2%
Annual Openings:	9

Industry		2014 Share	2024 Share
332	Fabricated Metal Manufacturing	60.4%	62.3%
333	Machinery Manufacturing	15.7%	15.1%
331	Primary Metal Manufacturing	n	n
334	Computer and Electronic Product Mfg	n	n
336	Transportation Equipment Manufacturing	n	n
5413	Architectural and Engineering Services	n	n

51-4021 Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic



Set up, operate, or tend machines to extrude or draw thermoplastic or metal materials into tubes, rods, hoses, wire, bars, or structural shapes. *Examples: Draw Bench Operator; Tube Drawer; Wire Drawing Setter*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 16.82
2014 Estimated Employment:	620
2024 Projected Employment:	498
Growth Rate, 2014-2024:	-19.7%
Annual Openings:	15

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	4.0%	4.2%
326 Plastics & Rubber Products Manufacturing	n	n
331 Primary Metal Manufacturing	n	n
335 Electrical Equipment and Appliances	n	n
425 Electronic Markets and Agents/Brokers	n	n
5613 Employment Services	n	n

51-4022 Forging Machine Setters, Operators, and Tenders, Metal and Plastic



Set up, operate, or tend forging machines to taper, shape, or form metal or plastic parts. *Examples: Cold Header Operator; Swager Operator; Drop Hammer Operator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 17.00
2014 Estimated Employment:	27
2024 Projected Employment:	23
Growth Rate, 2014-2024:	-14.8%
Annual Openings:	1

Industry	2014 Share	2024 Share
326 Plastics & Rubber Products Manufacturing	n	n
331 Primary Metal Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n
337 Furniture and Related Product Mfg	n	n

51-4023 Rolling Machine Setters, Operators, and Tenders, Metal and Plastic



Set up, operate, or tend machines to roll steel or plastic forming bends, beads, knurls, rolls, or plate or to flatten, temper, or reduce gauge of material. *Examples: Forming Roll Operator; Rolling Mill Operator; Tubing Machine Operator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 17.67
2014 Estimated Employment:	33
2024 Projected Employment:	30
Growth Rate, 2014-2024:	-9.1%
Annual Openings:	1

Industry	2014 Share	2024 Share
331 Primary Metal Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n
5613 Employment Services	n	n

51-4031 Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic



Set up, operate, or tend machines to saw, cut, shear, slit, punch, crimp, notch, bend, or straighten metal or plastic material. *Examples: Perforator Operator; Crimping Machine Operator; Four Slide Machine Setter*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 16.70
2014 Estimated Employment:	519
2024 Projected Employment:	441
Growth Rate, 2014-2024:	-15.0%
Annual Openings:	7

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	38.9%	39.5%
331 Primary Metal Manufacturing	22.2%	21.5%
5613 Employment Services	10.8%	12.5%
339 Miscellaneous Manufacturing	5.2%	4.3%
334 Computer and Electronic Product Mfg	n	n
337 Furniture and Related Product Mfg	n	n

51-4032 Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic



Set up, operate, or tend drilling machines to drill, bore, ream, mill, or countersink metal or plastic work pieces. *Examples: Drill Press Operator; Jewel Cupping Machine Operator; Reaming Press Operator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 17.63
2014 Estimated Employment:	73
2024 Projected Employment:	61
Growth Rate, 2014-2024:	-16.4%
Annual Openings:	1

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	56.2%	59.0%
326 Plastics & Rubber Products Manufacturing	n	n
331 Primary Metal Manufacturing	n	n
333 Machinery Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n
425 Electronic Markets and Agents/Brokers	n	n

51-4033 Grinding/Lapping/ Polishing/ Buffing Machine Tool Setters/ Operators/Tenders, Metal/Plastic



Set up, operate, or tend grinding and related tools that remove excess material or burrs from surfaces, sharpen edges or corners, or buff, hone, or polish metal or plastic work pieces. *Examples: Barrel Polisher; Jewel Bearing Facer; Metal Filer*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 18.07
2014 Estimated Employment:	512
2024 Projected Employment:	425
Growth Rate, 2014-2024:	-17.0%
Annual Openings:	21

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	46.9%	48.7%
331 Primary Metal Manufacturing	23.8%	22.4%
333 Machinery Manufacturing	18.8%	17.7%
326 Plastics & Rubber Products Manufacturing	n	n
336 Transportation Equipment Manufacturing	n	n
5613 Employment Services	n	n

51-4034 Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic



Set up, operate, or tend lathe and turning machines to turn, bore, thread, form, or face metal or plastic materials, such as wire, rod, or bar stock. *Examples: Gear Cutter; Screw Machine Operator; Threading Machine Setter*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 19.33
2014 Estimated Employment:	201
2024 Projected Employment:	173
Growth Rate, 2014-2024:	-13.9%
Annual Openings:	5

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	82.1%	82.7%
326 Plastics & Rubber Products Manufacturing	n	n
331 Primary Metal Manufacturing	n	n
333 Machinery Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n
336 Transportation Equipment Manufacturing	n	n

51-4035 Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic



Set up, operate, or tend milling or planing machines to mill, plane, shape, groove, or profile metal or plastic work pieces. *Examples: Broaching Machine Operator; Profiler Operator; Scribing Machine Operator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 20.38
2014 Estimated Employment:	136
2024 Projected Employment:	111
Growth Rate, 2014-2024:	-18.4%
Annual Openings:	2

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	64.7%	67.6%
Self-Employed Workers	0.7%	0.9%
326 Plastics & Rubber Products Manufacturing	n	n
331 Primary Metal Manufacturing	n	n
333 Machinery Manufacturing	n	n
336 Transportation Equipment Manufacturing	n	n

51-4041 Machinists



Set up and operate a variety of machine tools to produce precision parts and instruments. Include precision instrument makers who fabricate, modify, or repair mechanical instruments. May also fabricate and modify parts to make or repair machine tools or maintain industrial machines, applying knowledge of mechanics, shop mathematics, metal properties, layout, and machining procedures. *Examples: Electrical Instrument Maker; Machine Fitter*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 21.40
2014 Estimated Employment:	2,357
2024 Projected Employment:	2,700
Growth Rate, 2014-2024:	14.6%
Annual Openings:	102

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	56.0%	57.7%
333 Machinery Manufacturing	9.6%	9.1%
334 Computer and Electronic Product Mfg	8.4%	7.8%
326 Plastics & Rubber Products Manufacturing	5.0%	4.7%
339 Miscellaneous Manufacturing	3.9%	3.7%
335 Electrical Equipment and Appliances	3.3%	2.9%

51-4051 Metal-Refining Furnace Operators and Tenders



Operate or tend furnaces, such as gas, oil, coal, electric-arc or electric induction, open-hearth, or oxygen furnaces, to melt and refine metal before casting or to produce specified types of steel. *Examples: Blast Furnace Blower; Bessemer Regulator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 18.15
2014 Estimated Employment:	36
2024 Projected Employment:	36
Growth Rate, 2014-2024:	0.0%
Annual Openings:	1

Industry	2014 Share	2024 Share
331 Primary Metal Manufacturing	100.0%	100.0%

51-4052 Pourers and Casters, Metal



Operate hand-controlled mechanisms to pour and regulate the flow of molten metal into molds to produce castings or ingots. *Examples: Ingot Header; Ladle Operator; Steel Pourer*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 20.48
2014 Estimated Employment:	60
2024 Projected Employment:	49
Growth Rate, 2014-2024:	-18.3%
Annual Openings:	2

Industry	2014 Share	2024 Share
331 Primary Metal Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n

51-4061 Model Makers, Metal and Plastic



Set up and operate machines, such as lathes, milling and engraving machines, and jig borers to make working models of metal or plastic objects. *Examples: Jig and Fixture Builder; Mandrel Maker; Mock Up Maker*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	33
2024 Projected Employment:	30
Growth Rate, 2014-2024:	-9.1%
Annual Openings:	1

Industry	2014 Share	2024 Share
238 Specialty Trade Contractors	n	n
332 Fabricated Metal Product Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n
5413 Architectural and Engineering Services	n	n

51-4062 Patternmakers, Metal and Plastic



Lay out, machine, fit, and assemble castings and parts to metal or plastic foundry patterns, core boxes, or match plates. *Examples: Pattern Fitter; Stencil Cutter*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
331	Primary Metal Manufacturing	n	n
332	Fabricated Metal Product Manufacturing	n	n

51-4071 Foundry Mold and Coremakers



Make or form wax or sand cores or molds used in the production of metal castings in foundries. *Examples: Core Setter; Mold Closer; Dry Sand Molder*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 15.46
2014 Estimated Employment:	237
2024 Projected Employment:	177
Growth Rate, 2014-2024:	-25.3%
Annual Openings:	4

Industry		2014 Share	2024 Share
331	Primary Metal Manufacturing	n	n
333	Machinery Manufacturing	n	n

51-4072 Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic



Set up, operate, or tend metal or plastic molding, casting, or coremaking machines to mold or cast metal or thermoplastic parts or products. *Examples: Centrifugal Casting Machine Operator; Injection Molding Machine Setter; Core Moulder*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 14.59
2014 Estimated Employment:	1,178
2024 Projected Employment:	942
Growth Rate, 2014-2024:	-20.0%
Annual Openings:	18

Industry		2014 Share	2024 Share
326	Plastics & Rubber Products Manufacturing	78.6%	78.5%
331	Primary Metal Manufacturing	10.8%	10.2%
332	Fabricated Metal Product Manufacturing	5.9%	6.4%
313	Textile Mills	n	n
334	Computer and Electronic Product Mfg	n	n
336	Transportation Equipment Manufacturing	n	n

51-4081 Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic



Set up, operate, or tend more than one type of cutting or forming machine tool or robot. *Examples: Machine Tool Operator; Combination Machine Tool Setter; Metal and Plastic Transfer Machine Operator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 19.19
2014 Estimated Employment:	1,054
2024 Projected Employment:	1,021
Growth Rate, 2014-2024:	-3.1%
Annual Openings:	18

Industry		2014 Share	2024 Share
335	Electrical Equipment and Appliances	41.1%	38.0%
332	Fabricated Metal Product Manufacturing	27.2%	30.1%
326	Plastics & Rubber Products Manufacturing	n	n
331	Primary Metal Manufacturing	n	n
334	Computer and Electronic Product Mfg	n	n
336	Transportation Equipment Manufacturing	n	n

51-4111 Tool and Die Makers



Analyze specifications, lay out metal stock, set up and operate machine tools, and fit and assemble parts to make and repair dies, cutting tools, jigs, fixtures, gauges, and machinists' hand tools. *Examples: Die Sinker; Die Finisher; Sawsmith*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 24.46
2014 Estimated Employment:	352
2024 Projected Employment:	319
Growth Rate, 2014-2024:	-9.4%
Annual Openings:	2

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	43.8%	46.1%
333 Machinery Manufacturing	13.9%	13.5%
326 Plastics & Rubber Products Manufacturing	13.4%	13.2%
331 Primary Metal Manufacturing	n	n
335 Electrical Equipment and Appliances	n	n
336 Transportation Equipment Manufacturing	n	n

51-4121 Welders, Cutters, Solderers, and Brazers



Use hand-welding, flame-cutting, hand soldering, or brazing equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products. *Examples: Acetylene Burner; Arc Welder; Blow Torch Operator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 20.19
2014 Estimated Employment:	1,114
2024 Projected Employment:	1,157
Growth Rate, 2014-2024:	3.9%
Annual Openings:	36

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	28.8%	30.6%
333 Machinery Manufacturing	22.2%	21.4%
811 Repair and Maintenance	11.4%	11.4%
334 Computer and Electronic Product Mfg	6.1%	5.8%
238 Specialty Trade Contractors	5.2%	5.2%
336 Transportation Equipment Manufacturing	n	n

51-4122 Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders



Set up, operate, or tend welding, soldering, or brazing machines or robots that weld, braze, solder, or heat treat metal products, components, or assemblies. Include workers who operate laser cutters or laser-beam machines. *Examples: Electron Beam Welder Setter; Laser-Beam Machine Operator; Ultrasonic Welding Machine Operator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 15.32
2014 Estimated Employment:	282
2024 Projected Employment:	244
Growth Rate, 2014-2024:	-13.5%
Annual Openings:	8

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	69.2%	69.7%
Self-Employed Workers	5.3%	6.6%
326 Plastics & Rubber Products Manufacturing	n	n
331 Primary Metal Manufacturing	n	n
337 Furniture and Related Product Mfg	n	n
5613 Employment Services	n	n

51-4191 Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic



Set up, operate, or tend heating equipment, such as heat-treating furnaces, flame-hardening machines, induction machines, soaking pits, or vacuum equipment to temper, harden, anneal, or heat-treat metal or plastic objects. *Examples: Metal & Plastic Annealer; Metal & Plastic Temperer; Induction Machine Setter*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 18.38
2014 Estimated Employment:	92
2024 Projected Employment:	79
Growth Rate, 2014-2024:	-14.1%
Annual Openings:	2

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	70.7%	73.4%
Self-Employed Workers	1.1%	1.3%
326 Plastics & Rubber Products Manufacturing	n	n
336 Transportation Equipment Manufacturing	n	n

51-4192 Layout Workers, Metal and Plastic



Lay out reference points and dimensions on metal or plastic stock or workpieces, such as sheets, plates, tubes, structural shapes, castings, or machine parts, for further processing.

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	n	n

51-4193 Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic



Set up, operate, or tend plating or coating machines to coat metal or plastic products with chromium, zinc, copper, cadmium, nickel, or other metal to protect or decorate surfaces. *Examples: Anodizer; Electroplater; Galvanizer*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 14.69
2014 Estimated Employment:	110
2024 Projected Employment:	93
Growth Rate, 2014-2024:	-15.4%
Annual Openings:	3

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	49.1%	51.6%
334 Computer and Electronic Product Mfg	43.6%	40.9%
335 Electrical Equipment and Appliances	n	n
5613 Employment Services	n	n

51-4194 Tool Grinders, Filers, and Sharpeners



Perform precision smoothing, sharpening, polishing, or grinding of metal objects. *Examples: Die Polisher; Precision Honer; Tool Maintenance Worker*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 20.22
2014 Estimated Employment:	77
2024 Projected Employment:	65
Growth Rate, 2014-2024:	-15.6%
Annual Openings:	2

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	35.1%	35.4%
Self-Employed Workers	3.9%	4.6%
321 Wood Product Manufacturing	n	n
331 Primary Metal Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n
811 Repair and Maintenance	n	n

51-4199 Metal Workers and Plastic Workers, All Other



All metalworkers and plastic workers not listed separately. *Examples: Balancing Machine Operator; Film Casting Operator; Nail Making Machine Setter*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 16.03
2014 Estimated Employment:	1,071
2024 Projected Employment:	864
Growth Rate, 2014-2024:	-19.3%
Annual Openings:	19

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	24.3%	25.6%
331 Primary Metal Manufacturing	24.0%	23.8%
326 Plastics & Rubber Products Manufacturing	15.7%	15.6%
336 Transportation Equipment Manufacturing	8.9%	8.6%
333 Machinery Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n

51-5111 Prepress Technicians and Workers



Set up or operate binding machines that produce books and other printed materials. *Examples: Book Coverer; Stitching Machine Operator; Bookbinding Machine Operator*

Training Category: Postsecondary | none | none

2015 Average Wage:	\$ 22.09
2014 Estimated Employment:	141
2024 Projected Employment:	108
Growth Rate, 2014-2024:	-23.4%
Annual Openings:	2

Industry	2014 Share	2024 Share
323 Printing and Related Support Activities	83.7%	82.4%
Self-Employed Workers	1.4%	1.9%
322 Paper Manufacturing	n	n
511 Publishing Industries	n	n
5414 Specialized Design Services	n	n
5613 Employment Services	n	n

51-5112 Printing Press Operators



Perform highly skilled hand finishing operations, such as grooving and lettering to bind books. *Examples: Book Finisher; Book Mender*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 17.92
2014 Estimated Employment:	914
2024 Projected Employment:	859
Growth Rate, 2014-2024:	-6.0%
Annual Openings:	14

Industry	2014 Share	2024 Share
323 Printing and Related Support Activities	60.5%	60.8%
511 Publishing Industries	4.4%	3.3%
Self-Employed Workers	3.3%	2.9%
313 Textile Mills	n	n
322 Paper Manufacturing	n	n
524 Insurance Carriers & Related Activities	n	n

51-5113 Print Binding and Finishing Workers



Bind books and other publications or finish printed products by hand or machine. May set up binding and finishing machines. *Examples: Bookbinder; Bookbinding Machine Operator*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 14.94
2014 Estimated Employment:	215
2024 Projected Employment:	210
Growth Rate, 2014-2024:	-2.3%
Annual Openings:	3

Industry	2014 Share	2024 Share
323 Printing and Related Support Activities	87.0%	83.8%
State Government, ex. Education and Hospitals	0.9%	1.0%
511 Publishing Industries	n	n
5613 Employment Services	n	n
6113 Colleges and Universities	n	n

51-6011 Laundry and Dry-Cleaning Workers



Operate or tend washing or dry-cleaning machines to wash or dry-clean industrial or household articles, such as cloth garments, suede, leather, furs, blankets, draperies, fine linens, rugs, and carpets. Include spotters and dyers of these articles. *Examples: Laundry Carpet Cleaner; Silk Spotter; Washing Machine Operator*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 11.00
2014 Estimated Employment:	824
2024 Projected Employment:	838
Growth Rate, 2014-2024:	1.7%
Annual Openings:	13

Industry	2014 Share	2024 Share
812 Personal and Laundry Services	50.9%	47.0%
721 Accommodation	15.1%	16.2%
623 Nursing and Residential Care Facilities	12.3%	14.3%
Local Government, ex. Education	7.8%	8.0%
622 Hospitals	4.4%	4.5%
Self-Employed Workers	3.8%	3.8%

51-6021 Pressers, Textile, Garment, and Related Materials



Press or shape articles by hand or machine. *Examples: Clothes Ironer; Garment Steamer; Steam Operator*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 10.16
2014 Estimated Employment:	271
2024 Projected Employment:	255
Growth Rate, 2014-2024:	-5.9%
Annual Openings:	6

Industry		2014 Share	2024 Share
812	Personal and Laundry Services	99.6%	99.6%
	Self-Employed Workers	0.4%	0.4%

51-6031 Sewing Machine Operators



Operate or tend sewing machines to join, reinforce, decorate, or perform related sewing operations in the manufacture of garment or nongarment products. *Examples: Blind Stitch Machine Operator; Loop Tacker; Hemmer*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 13.98
2014 Estimated Employment:	609
2024 Projected Employment:	564
Growth Rate, 2014-2024:	-7.4%
Annual Openings:	4

Industry		2014 Share	2024 Share
315	Apparel Manufacturing	33.3%	32.5%
448	Clothing and Clothing Accessories Stores	14.6%	14.0%
314	Textile Product Mills	14.3%	13.5%
	Self-Employed Workers	7.7%	6.6%
323	Printing and Related Support Activities	5.6%	5.7%
339	Miscellaneous Manufacturing	n	n

51-6041 Shoe and Leather Workers and Repairers



Construct, decorate, or repair leather and leather-like products, such as luggage, shoes, and saddles. *Examples: Cobbler; Shoemaker*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	46
2024 Projected Employment:	33
Growth Rate, 2014-2024:	-28.3%
Annual Openings:	1

Industry		2014 Share	2024 Share
316	Leather and Allied Product Manufacturing	67.4%	60.6%
	Self-Employed Workers	19.6%	24.2%
448	Clothing and Clothing Accessories Stores	13.0%	15.2%

51-6051 Sewers, Hand



Sew, join, reinforce, or finish, usually with a needle and thread, a variety of manufactured items. Includes weavers and stitchers. *Examples: Hand Quilter, Hand Stitcher*

Training Category: none | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
	Self-Employed Workers	n	n
5414	Specialized Design Services	n	n
812	Personal and Laundry Services	n	n

51-6052 Tailors, Dressmakers, and Custom Sewers



Design, make, alter, repair, or fit garments. *Examples: Coat Maker; Hand Finisher*

Training Category: none | none | Moderate OJT

2015 Average Wage:	\$ 17.36
2014 Estimated Employment:	214
2024 Projected Employment:	191
Growth Rate, 2014-2024:	-10.8%
Annual Openings:	7

Industry	2014 Share	2024 Share
Self-Employed Workers	48.1%	50.3%
448 Clothing and Clothing Accessories Stores	30.4%	26.7%
314 Textile Product Mills	n	n
323 Printing and Related Support Activities	n	n
811 Repair and Maintenance	n	n
812 Personal and Laundry Services	n	n

51-6061 Textile Bleaching and Dyeing Machine Operators and Tenders



Operate or tend machines to bleach, shrink, wash, dye, or finish textiles or synthetic or glass fibers. *Examples: Bleach Range Operator; Rug Dyer; Skein Yarn Dyer*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 15.41
2014 Estimated Employment:	28
2024 Projected Employment:	28
Growth Rate, 2014-2024:	0.0%
Annual Openings:	0

Industry	2014 Share	2024 Share
313 Textile Mills	n	n
316 Leather and Allied Product Manufacturing	n	n

51-6062 Textile Cutting Machine Setters, Operators, and Tenders



Set up, operate, or tend machines that cut textiles. *Examples: Canvas Cutter; Rag Shredder; Welt Trimming Machine Operator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 15.76
2014 Estimated Employment:	47
2024 Projected Employment:	42
Growth Rate, 2014-2024:	-10.6%
Annual Openings:	1

Industry	2014 Share	2024 Share
313 Textile Mills	n	n
314 Textile Product Mills	n	n
315 Apparel Manufacturing	n	n
323 Printing and Related Support Activities	n	n
5414 Specialized Design Services	n	n

51-6063 Textile Knitting and Weaving Machine Setters, Operators, and Tenders



Set up, operate, or tend machines that knit, loop, weave, or draw in textiles. *Examples: Crochet Machine Operator; Ribbing Machine Operator; Looping Machine Operator*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 15.70
2014 Estimated Employment:	264
2024 Projected Employment:	262
Growth Rate, 2014-2024:	-0.8%
Annual Openings:	4

Industry	2014 Share	2024 Share
313 Textile Mills	83.7%	87.8%
Self-Employed Workers	16.3%	12.2%

51-6064 Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders



Set up, operate, or tend machines that wind or twist textiles; or draw out and combine sliver, such as wool, hemp, or synthetic fibers. *Examples: Beamer Operator; Bobbin Doffer; Frame Tender*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
313	Textile Mills	n	n

51-6091 Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers



Set up, operate, or tend machines that extrude and form continuous filaments from synthetic materials, such as liquid polymer, rayon, and fiberglass. *Examples: Fiber Machine Tender; Box Spinner; Synthetic Filament Spinner*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 17.31
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
313	Textile Mills	n	n
326	Plastics & Rubber Products Manufacturing	n	n

51-6092 Fabric and Apparel Patternmakers



Draw and construct sets of precision master fabric patterns or layouts. May also mark and cut fabrics and apparel.

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	n	n
314	Textile Product Mills	n	n
315	Apparel Manufacturing	n	n
454	Nonstore Retailers	n	n

51-6093 Upholsterers



Make, repair, or replace upholstery for household furniture or transportation vehicles. *Examples: Furniture Upholsterer*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 22.29
2014 Estimated Employment:	113
2024 Projected Employment:	123
Growth Rate, 2014-2024:	8.9%
Annual Openings:	4

Industry		2014 Share	2024 Share
Self-Employed Workers		26.6%	24.4%
442	Furniture and Home Furnishings Stores	n	n
5613	Employment Services	n	n
6113	Colleges and Universities	n	n
811	Repair and Maintenance	n	n

51-6099 Textile, Apparel, and Furnishings Workers, All Other



All textile, apparel and furnishings workers not listed separately. *Examples: Feltmaker, Hat Blocking Machine Operator*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 15.39
2014 Estimated Employment:	420
2024 Projected Employment:	439
Growth Rate, 2014-2024:	4.5%
Annual Openings:	6

Industry		2014 Share	2024 Share
313	Textile Mills	71.2%	70.8%
323	Printing and Related Support Activities	6.0%	5.5%
314	Textile Product Mills	n	n
315	Apparel Manufacturing	n	n
5613	Employment Services	n	n
811	Repair and Maintenance	n	n

51-7011 Cabinetmakers and Bench Carpenters



Cut, shape, and assemble wooden articles or set up and operate a variety of woodworking machines, such as power saws, jointers, and mortisers to surface, cut, or shape lumber or to fabricate parts for wood products. *Examples: Marquetry Worker; Antique Furniture Repairer; Wood Machinist*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 15.98
2014 Estimated Employment:	396
2024 Projected Employment:	423
Growth Rate, 2014-2024:	6.8%
Annual Openings:	6

Industry		2014 Share	2024 Share
337	Furniture and Related Product Mfg	67.2%	68.3%
321	Wood Product Manufacturing	8.3%	8.3%
	Self-Employed Workers	7.3%	6.6%
444	Building Material & Garden Supply Stores	n	n
451	Sporting Goods/Hobby/Book/Music Stores	n	n

51-7021 Furniture Finishers



Shape, finish, and refinish damaged, worn, or used furniture or new high-grade furniture to specified color or finish. *Examples: Furniture Polisher; Refinisher; Wood Grainer*

Training Category: High School | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	33
2024 Projected Employment:	35
Growth Rate, 2014-2024:	6.1%
Annual Openings:	1

Industry		2014 Share	2024 Share
337	Furniture and Related Product Mfg	87.9%	88.6%
	Self-Employed Workers	n	n
321	Wood Product Manufacturing	n	n

51-7041 Sawing Machine Setters, Operators, and Tenders, Wood



Set up, operate, or tend wood sawing machines. Include head sawyers. *Examples: Crozer Operator; Sawyer; Wood Cutter*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 14.16
2014 Estimated Employment:	226
2024 Projected Employment:	237
Growth Rate, 2014-2024:	4.9%
Annual Openings:	7

Industry		2014 Share	2024 Share
321	Wood Product Manufacturing	86.3%	86.9%
	Self-Employed Workers	5.3%	5.1%
337	Furniture and Related Product Mfg	n	n
423	Merchant Wholesalers, Durable Goods	n	n
454	Nonstore Retailers	n	n

51-7042 Woodworking Machine Setters, Operators, and Tenders, Except Sawing



Set up, operate, or tend woodworking machines, such as drill presses, lathes, shapers, routers, sanders, planers, and wood nailing machines.
Examples: Frazer; Molding Sander

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 14.70
2014 Estimated Employment:	505
2024 Projected Employment:	524
Growth Rate, 2014-2024:	3.8%
Annual Openings:	11

Industry	2014 Share	2024 Share
321 Wood Product Manufacturing	67.1%	68.1%
337 Furniture and Related Product Mfg	15.8%	15.7%
444 Building Material & Garden Supply Stores	4.8%	4.8%
326 Plastics & Rubber Products Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n
5613 Employment Services	n	n

51-7099 Woodworkers, All Other



All woodworkers not listed separately. *Examples: Wood Carver; Pole Framer; Veneer Taper*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 18.16
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
321 Wood Product Manufacturing	n	n
336 Transportation Equipment Manufacturing	n	n
337 Furniture and Related Product Mfg	n	n
339 Miscellaneous Manufacturing	n	n
5613 Employment Services	n	n

51-8011 Nuclear Power Reactor Operators



Control nuclear reactors. *Examples: Nuclear Control Room Operator; Nuclear Reactor Operator*

Training Category: High School | none | Long OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
221 Utilities	n	n

51-8012 Power Distributors and Dispatchers



Coordinate, regulate, or distribute electricity or steam.

Training Category: High School | none | Long OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
238 Specialty Trade Contractors	n	n

51-8013 Power Plant Operators



Coordinate, regulate, or distribute electricity or steam. *Examples: Electric and Gas Load Dispatcher; Substation Operator*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 28.60
2014 Estimated Employment:	168
2024 Projected Employment:	152
Growth Rate, 2014-2024:	-9.5%
Annual Openings:	6

Industry		2014 Share	2024 Share
221	Utilities	n	n
622	Hospitals	n	n

51-8021 Stationary Engineers and Boiler Operators



Operate or maintain stationary engines, boilers, or other mechanical equipment to provide utilities for buildings or industrial processes. Operate equipment, such as steam engines, generators, motors, turbines, and steam boilers.

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 27.11
2014 Estimated Employment:	86
2024 Projected Employment:	83
Growth Rate, 2014-2024:	-3.5%
Annual Openings:	2

Industry		2014 Share	2024 Share
6111	Elementary and Secondary Schools	12.8%	14.5%
6113	Colleges and Universities	16.3%	16.9%
221	Utilities	19.8%	19.3%
312	Beverage & Tobacco Product Manufacturing	n	n
322	Paper Manufacturing	n	n
622	Hospitals	n	n

51-8031 Water and Wastewater Treatment Plant and System Operators



Control, operate, or maintain machinery to generate electric power. Include auxiliary equipment operators. *Examples: Hydroelectric Operator; Generator Operator; Power House Operator*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 23.60
2014 Estimated Employment:	368
2024 Projected Employment:	393
Growth Rate, 2014-2024:	6.8%
Annual Openings:	11

Industry		2014 Share	2024 Share
	Local Government, ex. Education	80.2%	79.4%
221	Utilities	14.4%	15.3%
	State Government, ex. Education and Hospitals	2.7%	2.8%
331	Primary Metal Manufacturing	n	n
336	Transportation Equipment Manufacturing	n	n
6113	Colleges and Universities	n	n

51-8091 Chemical Plant and System Operators



Operate or control an entire process or system of machines, often through the use of control boards, to transfer or treat water or liquid waste. *Examples: Disposal Operator; Filtration Plant Operator; Sewage Plant Operator*

Training Category: High School | none | Long OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
332	Fabricated Metal Manufacturing	n	n
562	Waste Management and Remediation Service	n	n

51-8092 Gas Plant Operators



Distribute or process gas for utility companies and others by controlling compressors to maintain specified pressures on main pipelines. *Examples: Gas Controller, Gas Plant Dispatcher*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 32.60
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
221 Utilities	n	n
454 Nonstore Retailers	n	n

51-8093 Petroleum Pump System Operators, Refinery Operators, and Gaugers



Control the operation of petroleum refining or processing units. May specialize in controlling manifold and pumping systems, gauging or testing oil in storage tanks, or regulating the flow of oil into pipelines.

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 25.82
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
221 Utilities	n	n
425 Electronic Markets and Agents/Brokers	n	n
Federal Government, ex. Postal Service	n	n

51-8099 Plant and System Operators, All Other



All plant and system operators not listed separately. *Examples: Asphalt Plant Operator; Lime Filter Operator; Incinerator Operator*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 25.56
2014 Estimated Employment:	89
2024 Projected Employment:	85
Growth Rate, 2014-2024:	-4.5%
Annual Openings:	3

Industry	2014 Share	2024 Share
221 Utilities	46.1%	44.7%
Local Government, ex. Education	7.9%	8.2%
Federal Government, ex. Postal Service	6.7%	7.1%
212 Mining (except Oil and Gas)	n	n
324 Petroleum & Coal Products Manufacturing	n	n
562 Waste Management and Remediation Service	n	n

51-9011 Chemical Equipment Operators and Tenders



Operate or tend equipment to control chemical changes or reactions in the processing of industrial or consumer products. Equipment used includes devulcanizers, steam-jacketed kettles, and reactor vessels. *Examples: Acetylene Plant Operator; Caustic Purification Operator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 19.28
2014 Estimated Employment:	327
2024 Projected Employment:	343
Growth Rate, 2014-2024:	4.9%
Annual Openings:	12

Industry	2014 Share	2024 Share
325 Chemical Manufacturing	47.7%	49.6%
311 Food Manufacturing	n	n
313 Textile Mills	n	n
332 Fabricated Metal Product Manufacturing	n	n
333 Machinery Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n

51-9012 Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators/ Tenders 

Set up, operate, or tend continuous flow or vat-type equipment; filter presses; shaker screens; centrifuges; condenser tubes; precipitating, fermenting, or evaporating tanks; scrubbing towers; or batch stills. These machines extract, sort, or separate liquids, gases, or solids from other materials to recover a refined product. Include dairy processing equipment operators. *Examples: Dairy Processing Equipment Operator; Distiller*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 20.86
2014 Estimated Employment:	169
2024 Projected Employment:	183
Growth Rate, 2014-2024:	8.3%
Annual Openings:	6

Industry	2014 Share	2024 Share
312 Beverage Manufacturing	40.2%	38.8%
212 Mining (except Oil and Gas)	n	n
311 Food Manufacturing	n	n
325 Chemical Manufacturing	n	n
5613 Employment Services	n	n
722 Food Services and Drinking Places	n	n

51-9021 Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders 

Set up, operate, or tend machines to crush, grind, or polish materials, such as coal, glass, grain, stone, food, or rubber. *Examples: Beveling and Edging Machine Operator; Pulverizer Operator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 17.77
2014 Estimated Employment:	126
2024 Projected Employment:	124
Growth Rate, 2014-2024:	-1.6%
Annual Openings:	3

Industry	2014 Share	2024 Share
212 Mining (except Oil and Gas)	30.2%	30.7%
327 Nonmetallic Mineral Product Mfg	n	n
333 Machinery Manufacturing	n	n
423 Merchant Wholesalers, Durable Goods	n	n
444 Building Material & Garden Supply Stores	n	n
5413 Architectural and Engineering Services	n	n

51-9022 Grinding and Polishing Workers, Hand 

Grind, sand, or polish, using hand tools or hand-held power tools, a variety of metal, wood, stone, clay, plastic, or glass objects. Include chippers, buffers, and finishers. *Examples: Metal Sander; Gun Barrel Finisher; Hand Buffer*

Training Category: none | none | Moderate OJT

2015 Average Wage:	\$ 16.40
2014 Estimated Employment:	180
2024 Projected Employment:	163
Growth Rate, 2014-2024:	-9.4%
Annual Openings:	4

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	28.9%	33.1%
331 Primary Metal Manufacturing	27.8%	27.0%
Self-Employed Workers	1.1%	0.6%
326 Plastics & Rubber Products Manufacturing	n	n
327 Nonmetallic Mineral Product Mfg	n	n
339 Miscellaneous Manufacturing	n	n

51-9023 Mixing and Blending Machine Setters, Operators, and Tenders 

Set up, operate, or tend machines to mix or blend materials, such as chemicals, tobacco, liquids, color pigments, or explosive ingredients. *Examples: Batch Maker; Clay Mixer; Tumbler Tender*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 18.70
2014 Estimated Employment:	260
2024 Projected Employment:	255
Growth Rate, 2014-2024:	-1.9%
Annual Openings:	6

Industry	2014 Share	2024 Share
322 Paper Manufacturing	19.2%	14.9%
325 Chemical Manufacturing	13.9%	15.7%
332 Fabricated Metal Product Manufacturing	11.5%	12.9%
324 Petroleum & Coal Products Manufacturing	n	n
326 Plastics & Rubber Products Manufacturing	n	n
327 Nonmetallic Mineral Product Mfg	n	n

51-9031 Cutters and Trimmers, Hand



Use hand tools or hand-held power tools to cut and trim a variety of manufactured items, such as carpet, fabric, stone, glass, or rubber. *Examples: Buttonhole Maker; Fur Trimmer; Thread Clipper*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 15.72
2014 Estimated Employment:	37
2024 Projected Employment:	33
Growth Rate, 2014-2024:	-10.8%
Annual Openings:	1

Industry	2014 Share	2024 Share
315 Apparel Manufacturing	n	n
323 Printing and Related Support Activities	n	n
326 Plastics & Rubber Products Manufacturing	n	n
327 Nonmetallic Mineral Product Mfg	n	n
337 Furniture and Related Product Mfg	n	n
339 Miscellaneous Manufacturing	n	n

51-9032 Cutting and Slicing Machine Setters, Operators, and Tenders



Set up, operate, or tend machines that cut or slice materials, such as glass, stone, cork, rubber, tobacco, food, paper, or insulating material. *Examples: Bias Machine Operator; Slate Trimmer*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 17.40
2014 Estimated Employment:	211
2024 Projected Employment:	194
Growth Rate, 2014-2024:	-8.1%
Annual Openings:	4

Industry	2014 Share	2024 Share
327 Nonmetallic Mineral Product Mfg	24.2%	24.2%
322 Paper Manufacturing	19.0%	16.5%
323 Printing and Related Support Activities	12.3%	11.9%
326 Plastics & Rubber Products Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n
444 Building Material & Garden Supply Stores	n	n

51-9041 Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders



Set up, operate, or tend machines, such as glass forming machines, plodder machines, and tuber machines, to shape and form products, such as glassware, food, rubber, soap, brick, tile, clay, wax, tobacco, or cosmetics. *Examples: Briquette Maker; Cigarette Machine Operator; Rubber Laminating Machine Operator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 15.34
2014 Estimated Employment:	387
2024 Projected Employment:	343
Growth Rate, 2014-2024:	-11.4%
Annual Openings:	14

Industry	2014 Share	2024 Share
339 Miscellaneous Manufacturing	41.9%	39.9%
327 Nonmetallic Mineral Product Mfg	26.9%	25.4%
321 Wood Product Manufacturing	n	n
326 Plastics & Rubber Products Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n
5613 Employment Services	n	n

51-9051 Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders



Operate or tend heating equipment other than basic metal, plastic, or food processing equipment. Include activities, such as annealing glass, drying lumber, curing rubber, removing moisture from materials, or boiling soap. *Examples: Brick Baker; Stoker; Tunnel Kiln Operator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 19.19
2014 Estimated Employment:	28
2024 Projected Employment:	27
Growth Rate, 2014-2024:	-3.6%
Annual Openings:	1

Industry	2014 Share	2024 Share
212 Mining (except Oil and Gas)	n	n
321 Wood Product Manufacturing	n	n
327 Nonmetallic Mineral Product Mfg	n	n
339 Miscellaneous Manufacturing	n	n
423 Merchant Wholesalers, Durable Goods	n	n

51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers



Inspect, test, sort, sample, or weigh nonagricultural raw materials or processed, machined, fabricated, or assembled parts or products for defects, wear, and deviations from specifications. May use precision measuring instruments and complex test equipment. *Examples: Bearing Inspector; Testing and Regulating Technician*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 19.83
2014 Estimated Employment:	3,297
2024 Projected Employment:	3,422
Growth Rate, 2014-2024:	3.8%
Annual Openings:	95

Industry	2014 Share	2024 Share
332 Fabricated Metal Manufacturing	19.8%	20.8%
334 Computer and Electronic Product Mfg	17.4%	16.3%
5613 Employment Services	9.6%	11.3%
333 Machinery Manufacturing	7.1%	6.8%
335 Electrical Equipment and Appliances	5.0%	4.4%
326 Plastics & Rubber Products Manufacturing	4.4%	4.2%

51-9071 Jewelers and Precious Stone and Metal Workers



Design, fabricate, adjust, repair, or appraise jewelry, gold, silver, other precious metals, or gems. *Examples: Diamond Expert; Goldsmith*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 18.02
2014 Estimated Employment:	111
2024 Projected Employment:	95
Growth Rate, 2014-2024:	-14.4%
Annual Openings:	2

Industry	2014 Share	2024 Share
448 Clothing and Clothing Accessories Stores	55.0%	51.6%
Self-Employed Workers	38.7%	41.1%
6113 Colleges and Universities	n	n
811 Repair and Maintenance	n	n

51-9081 Dental Laboratory Technicians



Construct and repair full or partial dentures or dental appliances. *Examples: Ceramist; Crown and Bridge Technician*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 20.84
2014 Estimated Employment:	154
2024 Projected Employment:	175
Growth Rate, 2014-2024:	13.6%
Annual Openings:	6

Industry	2014 Share	2024 Share
339 Miscellaneous Manufacturing	76.6%	76.6%
621 Ambulatory Health Care Services	16.2%	16.6%
Self-Employed Workers	7.1%	6.9%

51-9082 Medical Appliance Technicians



Construct, fit, maintain, or repair medical supportive devices, such as braces, artificial limbs, joints, arch supports, and other surgical and medical appliances. *Examples: Brace Maker; Prosthetics Technician*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 20.76
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
339 Miscellaneous Manufacturing	n	n
423 Merchant Wholesalers, Durable Goods	n	n
551 Management of Companies and Enterprises	n	n
622 Hospitals	n	n

51-9083 Ophthalmic Laboratory Technicians



Cut, grind, and polish eyeglasses, contact lenses, or other precision optical elements. Assemble and mount lenses into frames or process other optical elements. *Examples: Eyeglass Maker; Spectacle Truer*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 15.33
2014 Estimated Employment:	308
2024 Projected Employment:	332
Growth Rate, 2014-2024:	7.8%
Annual Openings:	9

Industry		2014 Share	2024 Share
621	Ambulatory Health Care Services	15.9%	18.4%
	Self-Employed Workers	7.8%	7.2%
333	Machinery Manufacturing	n	n
339	Miscellaneous Manufacturing	n	n
446	Health and Personal Care Stores	n	n
5613	Employment Services	n	n

51-9111 Packaging and Filling Machine Operators and Tenders



Operate or tend machines to prepare industrial or consumer products for storage or shipment. Include cannery workers who pack food products. *Examples: Bottle Caser; Wrapper Layer; Strapping Machine Operator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 16.07
2014 Estimated Employment:	1,011
2024 Projected Employment:	1,069
Growth Rate, 2014-2024:	5.7%
Annual Openings:	42

Industry		2014 Share	2024 Share
326	Plastics & Rubber Products Manufacturing	19.4%	18.3%
312	Beverage & Tobacco Product Manufacturing	17.9%	17.8%
325	Chemical Manufacturing	12.2%	13.2%
5613	Employment Services	9.0%	10.6%
311	Food Manufacturing	n	n
551	Management of Companies and Enterprises	n	n

51-9121 Coating, Painting, and Spraying Machine Setters, Operators, and Tenders



Set up, operate, or tend machines to coat or paint any of a wide variety of products including food, glassware, cloth, ceramics, metal, plastic, paper, or wood, with lacquer, silver, copper, rubber, varnish, glaze, enamel, oil, or rust-proofing materials. *Examples: Electrostatic Paint Operator; Silvering Applicator; Supercalender Operator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 16.83
2014 Estimated Employment:	434
2024 Projected Employment:	445
Growth Rate, 2014-2024:	2.5%
Annual Openings:	9

Industry		2014 Share	2024 Share
332	Fabricated Metal Manufacturing	33.6%	36.6%
337	Furniture and Related Product Mfg	11.8%	12.4%
313	Textile Mills	n	n
322	Paper Manufacturing	n	n
327	Nonmetallic Mineral Product Mfg	n	n
331	Primary Metal Manufacturing	n	n

51-9122 Painters, Transportation Equipment



Operate or tend painting machines to paint surfaces of transportation equipment, such as automobiles, buses, trucks, trains, boats, and airplanes. *Examples: Auto Painter; Rust Proofer*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 21.58
2014 Estimated Employment:	63
2024 Projected Employment:	67
Growth Rate, 2014-2024:	6.4%
Annual Openings:	1

Industry		2014 Share	2024 Share
811	Repair and Maintenance	90.5%	91.0%
	Self-Employed Workers	6.4%	6.0%
333	Machinery Manufacturing	n	n
441	Motor Vehicle and Parts Dealers	n	n

51-9123 Painting, Coating, and Decorating Workers



Paint, coat, or decorate articles, such as furniture, glass, plateware, pottery, jewelry, cakes, toys, books, or leather. *Examples: Stenciler; Candy Dipper; Mirror Silverer*

Training Category: none | none | Moderate OJT

2015 Average Wage:	\$ 11.96
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
327 Nonmetallic Mineral Product Mfg	n	n
337 Furniture and Related Product Mfg	n	n
339 Miscellaneous Manufacturing	n	n

51-9141 Semiconductor Processors



Perform any or all of the following functions in the manufacture of electronic semiconductors: load semiconductor material into furnace; saw formed ingots into segments; load individual segment into crystal growing chamber and monitor controls; locate crystal axis in ingot using x-ray equipment and saw ingots into wafers; clean, polish, and load wafers into series of special purpose furnaces, chemical baths, and equipment used to form circuitry and change conductive properties. *Examples: Circuit Recorder; Crystal Grower; Wafer Machine Operator*

Training Category: Associate | none | Moderate OJT

2015 Average Wage:	\$ 21.60
2014 Estimated Employment:	115
2024 Projected Employment:	113
Growth Rate, 2014-2024:	-1.7%
Annual Openings:	2

Industry	2014 Share	2024 Share
334 Computer and Electronic Product Mfg	94.8%	94.7%
Self-Employed Workers	5.2%	5.3%

51-9151 Photographic Process Workers and Processing Machine Operators



Perform work involved in developing and processing photographic images from film or digital media. May perform precision tasks such as editing photographic negatives and prints. *Examples: Digital Photo Printer; Photo Lab Specialist; Photo Retoucher*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 12.11
2014 Estimated Employment:	219
2024 Projected Employment:	154
Growth Rate, 2014-2024:	-29.7%
Annual Openings:	4

Industry	2014 Share	2024 Share
446 Health and Personal Care Stores	55.3%	50.7%
812 Personal and Laundry Services	11.4%	11.0%
531 Real Estate	10.1%	15.6%
443 Electronics and Appliance Stores	4.6%	3.9%
452 General Merchandise Stores	n	n
518 ISPs, Search Portals, & Data Processing	n	n

51-9191 Adhesive Bonding Machine Operators and Tenders



Operate or tend cementing and gluing machines to join items for further processing or to form a completed product. Processes include joining veneer sheets into plywood; gluing paper; joining rubber and rubberized fabric parts, plastic, simulated leather, or other materials. *Examples: Bonding Molder; Paper Sealer; Taper Operator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 16.00
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
313 Textile Mills	n	n
323 Printing and Related Support Activities	n	n
337 Furniture and Related Product Mfg	n	n
339 Miscellaneous Manufacturing	n	n

51-9192 Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders



Operate or tend machines to wash or clean products, such as barrels or kegs, glass items, tin plate, food, pulp, coal, plastic, or rubber, to remove impurities. *Examples: Acid Dipper; Degreaser Operator; Pulp Bleacher*

Training Category: none | none | Moderate OJT

2015 Average Wage:	\$ 15.58
2014 Estimated Employment:	179
2024 Projected Employment:	193
Growth Rate, 2014-2024:	7.8%
Annual Openings:	6

Industry		2014 Share	2024 Share
332	Fabricated Metal Manufacturing	62.0%	63.2%
311	Food Manufacturing	11.7%	10.9%
331	Primary Metal Manufacturing	11.2%	10.9%
	Self-Employed Workers	8.4%	8.3%
5613	Employment Services	3.9%	4.2%
323	Printing and Related Support Activities	2.8%	2.6%

51-9193 Cooling and Freezing Equipment Operators and Tenders



Operate or tend equipment, such as cooling and freezing units, refrigerators, batch freezers, and freezing tunnels, to cool or freeze products, food, blood plasma, and chemicals. *Example: Refrigerating Machine Operator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
	Self-Employed Workers	n	n
339	Miscellaneous Manufacturing	n	n

51-9194 Etchers and Engravers



Engrave or etch metal, wood, rubber, or other materials for identification or decorative purposes. Include such workers as etcher-circuit processors, pantograph engravers, and silk screen etchers. *Examples: Embrosser; Letterer*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 13.64
2014 Estimated Employment:	30
2024 Projected Employment:	31
Growth Rate, 2014-2024:	3.3%
Annual Openings:	1

Industry		2014 Share	2024 Share
448	Clothing and Clothing Accessories Stores	23.3%	19.4%
	Self-Employed Workers	10.0%	9.7%
454	Nonstore Retailers	10.0%	16.1%
323	Printing and Related Support Activities	n	n
327	Nonmetallic Mineral Product Mfg	n	n
332	Fabricated Metal Product Manufacturing	n	n

51-9195 Molders, Shapers, and Casters, Except Metal and Plastic



Mold, shape, form, cast, or carve products such as food products, figurines, tile, pipes, and candles consisting of clay, glass, plaster, concrete, stone, or combinations of materials. *Examples: Cigar Roller; Glass Blower; Marble Finisher*

Training Category: High School | none | Long OJT

2015 Average Wage:	\$ 14.66
2014 Estimated Employment:	333
2024 Projected Employment:	308
Growth Rate, 2014-2024:	-7.5%
Annual Openings:	11

Industry		2014 Share	2024 Share
327	Nonmetallic Mineral Product Mfg	21.3%	21.8%
	Self-Employed Workers	14.7%	14.3%
313	Textile Mills	n	n
326	Plastics & Rubber Products Manufacturing	n	n
339	Miscellaneous Manufacturing	n	n
551	Management of Companies and Enterprises	n	n

51-9196 Paper Goods Machine Setters, Operators, and Tenders



Set up, operate, or tend paper goods machines that perform a variety of functions, such as converting, sawing, corrugating, banding, wrapping, boxing, stitching, forming, or sealing paper or paperboard sheets into products. *Examples: Bag Machine Operator; Box Fabricator; Carton Forming Machine Operator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 20.33
2014 Estimated Employment:	204
2024 Projected Employment:	170
Growth Rate, 2014-2024:	-16.7%
Annual Openings:	3

Industry	2014 Share	2024 Share
322 Paper Manufacturing	83.8%	80.6%
323 Printing and Related Support Activities	7.8%	8.8%
Self-Employed Workers	0.5%	0.6%
423 Merchant Wholesalers, Durable Goods	n	n
551 Management of Companies and Enterprises	n	n
5613 Employment Services	n	n

51-9197 Tire Builders



Operate machines to build tires. *Examples: Auto Tire Recapper; Tire Molder*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
326 Plastics & Rubber Products Manufacturing	n	n

51-9198 Helpers--Production Workers



Help production workers by performing duties of lesser skill. Duties include supplying or holding materials or tools, and cleaning work area and equipment. *Examples: Welder's Assistant; Tailor's Aide; Millwright's Helper*

Training Category: none | none. | Short OJT

2015 Average Wage:	\$ 12.02
2014 Estimated Employment:	1,756
2024 Projected Employment:	1,891
Growth Rate, 2014-2024:	7.7%
Annual Openings:	71

Industry	2014 Share	2024 Share
5613 Employment Services	56.8%	62.2%
339 Miscellaneous Manufacturing	6.8%	5.6%
332 Fabricated Metal Product Manufacturing	6.5%	6.3%
335 Electrical Equipment and Appliances	4.4%	3.5%
323 Printing and Related Support Activities	4.3%	3.7%
313 Textile Mills	3.3%	3.1%

51-9199 Production Workers, All Other



All production workers not listed separately. *Examples: Barrel Header; Mop Maker*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 14.52
2014 Estimated Employment:	2,222
2024 Projected Employment:	2,371
Growth Rate, 2014-2024:	6.7%
Annual Openings:	61

Industry	2014 Share	2024 Share
5613 Employment Services	29.1%	34.3%
334 Computer and Electronic Product Mfg	15.0%	13.6%
339 Miscellaneous Manufacturing	14.4%	12.5%
313 Textile Mills	6.2%	6.1%
332 Fabricated Metal Product Manufacturing	5.6%	5.7%
Self-Employed Workers	5.5%	4.8%

53-1011 Aircraft Cargo Handling Supervisors



Direct ground crew in the loading, unloading, securing, and staging of aircraft cargo or baggage. Determine the quantity and orientation of cargo and compute aircraft center of gravity. May accompany aircraft as member of flight crew and monitor and handle cargo in flight, and assist and brief passengers on safety and emergency procedures. Include loadmasters.

Training Category: High School | < 5 yrs | none

2015 Average Wage:	\$ 24.57
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
488 Support Activities for Transportation	n	n
492 Couriers and Messengers	n	n

53-1021 First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand



Supervise and coordinate the activities of helpers, laborers, or material movers. *Examples: Cargo Supervisor; Yard Supervisor; Warehouse Supervisor*

Training Category: High School | < 5 yrs | none

2015 Average Wage:	\$ 21.85
2014 Estimated Employment:	465
2024 Projected Employment:	486
Growth Rate, 2014-2024:	4.5%
Annual Openings:	17

Industry	2014 Share	2024 Share
493 Warehousing and Storage	14.2%	13.6%
Local Government, ex. Education	12.5%	12.8%
492 Couriers and Messengers	11.4%	10.7%
423 Merchant Wholesalers, Durable Goods	8.0%	8.2%
425 Electronic Markets and Agents/Brokers	5.6%	6.0%
811 Repair and Maintenance	5.2%	5.6%

53-1031 First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators



Directly supervise and coordinate activities of transportation and material-moving machine and vehicle operators and helpers. *Examples: Dockmaster; Gas Station Manager; Roadmaster*

Training Category: High School | < 5 yrs | none

2015 Average Wage:	\$ 28.08
2014 Estimated Employment:	691
2024 Projected Employment:	721
Growth Rate, 2014-2024:	4.3%
Annual Openings:	25

Industry	2014 Share	2024 Share
492 Couriers and Messengers	10.0%	10.0%
424 Merchant Wholesalers, Nondurable Goods	9.4%	9.4%
484 Truck Transportation	8.1%	8.3%
485 Transit and Ground Passenger Transport	6.8%	7.4%
444 Building Material & Garden Supply Stores	6.7%	6.7%
811 Repair and Maintenance	5.9%	6.2%

53-2011 Airline Pilots, Copilots, and Flight Engineers



Pilot and navigate the flight of multi-engine aircraft in regularly scheduled service for the transport of passengers and cargo. Requires Federal Air Transport rating and certification in specific aircraft type used. *Examples: Airline Captain; First Officer; Flight Navigator*

Training Category: Bachelor | < 5 yr | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	53
2024 Projected Employment:	54
Growth Rate, 2014-2024:	1.9%
Annual Openings:	1

Industry	2014 Share	2024 Share
481 Air Transportation	n	n
488 Support Activities for Transportation	n	n
6115 Technical and Trade Schools	n	n
Federal Government, ex. Postal Service	n	n

53-2012 Commercial Pilots



Pilot and navigate the flight of small fixed or rotary winged aircraft, primarily for the transport of cargo and passengers. Requires Commercial Rating. *Example: Test Pilot*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	212
2024 Projected Employment:	227
Growth Rate, 2014-2024:	7.1%
Annual Openings:	7

Industry	2014 Share	2024 Share
481 Air Transportation	81.1%	80.6%
Self-Employed Workers	6.1%	5.7%
488 Support Activities for Transportation	n	n
531 Real Estate	n	n
5416 Management & Technical Consulting Svc	n	n

53-2021 Air Traffic Controllers



Control air traffic on and within vicinity of airport and movement of air traffic between altitude sectors and control centers according to established procedures and policies. Authorize, regulate, and control commercial airline flights according to government or company regulations to expedite and ensure flight safety. *Examples: Control Tower Operator; Flight Control Specialist; Flight Dispatcher*

Training Category: Associate | none | Long OJT

2015 Average Wage:	\$ 67.11
2014 Estimated Employment:	447
2024 Projected Employment:	437
Growth Rate, 2014-2024:	-2.2%
Annual Openings:	14

Industry	2014 Share	2024 Share
Federal Government, ex. Postal Service	96.0%	95.4%
488 Support Activities for Transportation	4.0%	4.6%

53-2022 Airfield Operations Specialists



Ensure the safe takeoff and landing of commercial and military aircraft. Duties include coordination between air-traffic control and maintenance personnel; dispatching; using airfield landing and navigational aids; implementing airfield safety procedures; monitoring and maintaining flight records; and applying knowledge of weather information.

Training Category: High School | none | Long OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Federal Government, ex. Postal Service	n	n

53-2031 Flight Attendants



Provide personal services to ensure the safety, security, and comfort of airline passengers during flight. Greet passengers, verify tickets, explain use of safety equipment, and serve food or beverages. *Example: Airline Flight Attendant*

Training Category: High School | < 5 yrs | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
481 Air Transportation	n	n

53-3011 Ambulance Drivers and Attendants, Except Emergency Medical Technicians



Drive ambulance or assist ambulance driver in transporting sick, injured, or convalescent persons. Assist in lifting patients. *Example: Patient Carrier*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 11.52
2014 Estimated Employment:	98
2024 Projected Employment:	126
Growth Rate, 2014-2024:	28.6%
Annual Openings:	5

Industry	2014 Share	2024 Share
621 Ambulatory Health Care Services	73.5%	78.6%
622 Hospitals	15.3%	12.7%
Local Government, ex. Education	11.2%	8.7%

53-3021 Bus Drivers, Transit and Intercity



Drive bus or motor coach, including regular route operations, charters, and private carriage. May assist passengers with baggage. May collect fares or tickets. *Examples: Motor Coach Operator; Jitney Driver*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 18.14
2014 Estimated Employment:	328
2024 Projected Employment:	368
Growth Rate, 2014-2024:	12.2%
Annual Openings:	8

Industry	2014 Share	2024 Share
485 Transit and Ground Passenger Transport	75.6%	76.9%
Local Government, ex. Education	19.8%	18.8%
6111 Elementary and Secondary Schools	2.1%	1.9%
487 Scenic and Sightseeing Transportation	1.8%	1.9%
Self-Employed Workers	0.6%	0.5%

53-3022 Bus Drivers, School or Special Client



Transport students or special clients, such as the elderly or persons with disabilities. Ensure adherence to safety rules. May assist passengers in boarding or exiting.

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 14.23
2014 Estimated Employment:	2,541
2024 Projected Employment:	2,900
Growth Rate, 2014-2024:	14.1%
Annual Openings:	69

Industry	2014 Share	2024 Share
485 Transit and Ground Passenger Transport	75.9%	77.9%
Local Government, ex. Education	13.4%	12.5%
6111 Elementary and Secondary Schools	4.8%	4.2%
6113 Colleges and Universities	2.9%	2.7%
624 Social Assistance	1.3%	1.3%
811 Repair and Maintenance	n	n

53-3031 Driver/Sales Workers



Drive truck or other vehicle over established routes or within an established territory and sell goods, such as food products, including restaurant take-out items, or pick up and deliver items, such as laundry. May also take orders and collect payments. *Examples: Bakery Delivery Person; Milk Delivery Person; Bread Distributor*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 14.59
2014 Estimated Employment:	2,494
2024 Projected Employment:	2,656
Growth Rate, 2014-2024:	6.5%
Annual Openings:	58

Industry	2014 Share	2024 Share
722 Food Services and Drinking Places	50.6%	52.6%
424 Merchant Wholesalers, Nondurable Goods	16.4%	16.4%
Self-Employed Workers	7.1%	6.9%
812 Personal and Laundry Services	5.9%	5.2%
454 Nonstore Retailers	3.3%	2.5%
441 Motor Vehicle and Parts Dealers	3.3%	3.3%

53-3032 Heavy and Tractor-Trailer Truck Drivers



Drive a tractor-trailer combination or a truck with a capacity of at least 26,000 GVW, to transport and deliver goods, livestock, or materials in liquid, loose, or packaged form. May be required to unload truck. May require use of automated routing equipment. Requires commercial drivers' license. *Examples: Auto Carrier Driver; Cement Truck Driver; Moving Van Driver*

Training Category: Postsecondary | none | Short OJT

2015 Average Wage:	\$ 20.03
2014 Estimated Employment:	7,189
2024 Projected Employment:	7,519
Growth Rate, 2014-2024:	4.6%
Annual Openings:	155

Industry	2014 Share	2024 Share
484 Truck Transportation	18.7%	19.5%
424 Merchant Wholesalers, Nondurable Goods	11.2%	11.2%
454 Nonstore Retailers	10.3%	7.9%
Self-Employed Workers	6.9%	6.8%
562 Waste Management and Remediation Service	6.1%	6.5%
238 Specialty Trade Contractors	5.8%	5.8%

53-3033 Light Truck or Delivery Services Drivers



Drive a truck or van with a capacity of under 26,000 GVW, primarily to deliver or pick up merchandise or to deliver packages within a specified area. May require use of automatic routing or location software. May load and unload truck. *Example: Parcel Post Truck Driver*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 14.38
2014 Estimated Employment:	4,362
2024 Projected Employment:	4,645
Growth Rate, 2014-2024:	6.5%
Annual Openings:	102

Industry	2014 Share	2024 Share
492 Couriers and Messengers	22.0%	22.9%
441 Motor Vehicle and Parts Dealers	15.9%	15.4%
423 Merchant Wholesalers, Durable Goods	8.5%	8.4%
484 Truck Transportation	7.9%	7.9%
Self-Employed Workers	6.9%	6.7%
444 Building Material & Garden Supply Stores	4.7%	4.6%

53-3041 Taxi Drivers and Chauffeurs



Drive automobiles, vans, or limousines to transport passengers. May occasionally carry cargo. Include hearse drivers. *Examples: Cab Driver; Limousine Driver*

Training Category: none | none. | Short OJT

2015 Average Wage:	\$ 12.56
2014 Estimated Employment:	1,152
2024 Projected Employment:	1,311
Growth Rate, 2014-2024:	13.8%
Annual Openings:	38

Industry	2014 Share	2024 Share
485 Transit and Ground Passenger Transport	43.2%	37.0%
Self-Employed Workers	19.1%	25.0%
441 Motor Vehicle and Parts Dealers	10.5%	10.0%
624 Social Assistance	4.6%	4.4%
621 Ambulatory Health Care Services	4.3%	5.2%
623 Nursing and Residential Care Facilities	4.3%	5.2%

53-3099 Motor Vehicle Operators, All Other



All motor vehicle operators not listed separately. *Examples: Motorcycle Delivery Driver; Assembly Line Driver; Street Cleaning Equipment Operator*

Training Category: none | none. | Short OJT

2015 Average Wage:	\$ 14.90
2014 Estimated Employment:	350
2024 Projected Employment:	379
Growth Rate, 2014-2024:	8.3%
Annual Openings:	14

Industry	2014 Share	2024 Share
441 Motor Vehicle and Parts Dealers	40.9%	40.6%
624 Social Assistance	12.6%	12.7%
532 Rental and Leasing Services	12.3%	12.4%
423 Merchant Wholesalers, Durable Goods	6.3%	6.3%
713 Amusement, Gambling & Recreation Ind	5.7%	6.1%
488 Support Activities for Transportation	3.7%	4.0%

53-4011 Locomotive Engineers 

Drive electric, diesel-electric, steam, or gas-turbine-electric locomotives to transport passengers or freight. Interpret train orders, electronic or manual signals, and railroad rules and regulations.

Training Category: High School | < 5 yrs | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	23
2024 Projected Employment:	23
Growth Rate, 2014-2024:	0.0%
Annual Openings:	1

Industry	2014 Share	2024 Share
482 Rail Transportation	n	n
487 Scenic and Sightseeing Transportation	n	n

53-4021 Railroad Brake, Signal, and Switch Operators 

Operate railroad track switches. Couple or uncouple rolling stock to make up or break up trains. Signal engineers by hand or flagging. May inspect couplings, air hoses, journal boxes, and hand brakes.

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
482 Rail Transportation	n	n

53-4031 Railroad Conductors and Yardmasters 

Coordinate activity of train crew on passenger or freight train. *Examples: Car Dispatcher; Roadmaster*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 17.82
2014 Estimated Employment:	23
2024 Projected Employment:	27
Growth Rate, 2014-2024:	17.4%
Annual Openings:	1

Industry	2014 Share	2024 Share
482 Rail Transportation	n	n
487 Scenic and Sightseeing Transportation	n	n

53-4099 Rail Transportation Workers, All Other 

All rail transportation workers not listed separately. *Examples: Railway Equipment Operator; Transfer Table Operator*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
482 Rail Transportation	n	n

53-5011 Sailors and Marine Oilers



Stand watch to look for obstructions in path of vessel, measure water depth, turn wheel on bridge, or use emergency equipment as directed by captain, mate, or pilot. Break out, rig, overhaul, and store cargo-handling gear, stationary rigging, and running gear. Perform a variety of maintenance tasks to preserve the painted surface of the ship and to maintain line and ship equipment. Must hold government-issued certification and tankerman certification when working aboard liquid-carrying vessels. Include able seamen and ordinary seamen.

Training Category: none | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
488 Support Activities for Transportation	n	n
6113 Colleges and Universities	n	n

53-5021 Captains, Mates, and Pilots of Water Vessels



Command or supervise operations of ships and water vessels, such as tugboats and ferryboats, that travel into and out of harbors, estuaries, straits, and sounds and on rivers, lakes, bays, and oceans.

Training Category: Postsecondary | < 5 yrs | none

2015 Average Wage:	n/a
2014 Estimated Employment:	94
2024 Projected Employment:	112
Growth Rate, 2014-2024:	19.2%
Annual Openings:	6

Industry	2014 Share	2024 Share
487 Scenic and Sightseeing Transportation	72.3%	75.0%
Self-Employed Workers	6.4%	5.4%
488 Support Activities for Transportation	n	n
532 Rental and Leasing Services	n	n
6113 Colleges and Universities	n	n

53-5022 Motorboat Operators



Operate small motor-driven boats to carry passengers and freight between ships, or ship to shore. May patrol harbors and beach areas. May assist in navigational activities. *Examples: Launch Operator; Speedboat Operator*

Training Category: Postsecondary | < 5 yrs | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
5619 Other Support Services	n	n

53-5031 Ship Engineers



Supervise and coordinate activities of crew engaged in operating and maintaining engines, boilers, deck machinery, and electrical, sanitary, and refrigeration equipment aboard ship.

Training Category: Postsecondary | < 5 yrs | none

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
487 Scenic and Sightseeing Transportation	n	n
488 Support Activities for Transportation	n	n
Federal Government, ex. Postal Service	n	n

53-6011 Bridge and Lock Tenders



Operate and tend bridges, canal locks, and lighthouses to permit marine passage on inland waterways, near shores, and at danger points in waterway passages. May supervise such operations. Include drawbridge operators, lock tenders and operators, and slip bridge operators.

Training Category: High School | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Local Government, ex. Education	n	n

53-6021 Parking Lot Attendants



Park automobiles or issue tickets for customers in a parking lot or garage. May collect fee. *Examples: Car Hop; Car Runner*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 11.98
2014 Estimated Employment:	310
2024 Projected Employment:	326
Growth Rate, 2014-2024:	5.2%
Annual Openings:	19

Industry	2014 Share	2024 Share
812 Personal and Laundry Services	35.5%	33.7%
441 Motor Vehicle and Parts Dealers	27.7%	28.5%
721 Accommodation	13.6%	13.8%
Local Government, ex. Education	6.1%	6.1%
423 Merchant Wholesalers, Durable Goods	n	n
713 Amusement, Gambling & Recreation Ind	n	n

53-6031 Automotive and Watercraft Service Attendants



Service automobiles, buses, trucks, boats, and other automotive or marine vehicles with fuel, lubricants, and accessories. Collect payment for services and supplies. May lubricate vehicle, change motor oil, install antifreeze, or replace lights or other accessories, such as windshield wiper blades or fan belts. May repair or replace tires. *Examples: Filling Station Attendant; Gas and Oil Servicer; Pump Attendant*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 10.89
2014 Estimated Employment:	498
2024 Projected Employment:	538
Growth Rate, 2014-2024:	8.0%
Annual Openings:	24

Industry	2014 Share	2024 Share
811 Repair and Maintenance	42.6%	43.9%
447 Gasoline Stations	24.7%	23.2%
441 Motor Vehicle and Parts Dealers	22.5%	22.1%
452 General Merchandise Stores	n	n
488 Support Activities for Transportation	n	n
532 Rental and Leasing Services	n	n

53-6041 Traffic Technicians



Conduct field studies to determine traffic volume, speed, effectiveness of signals, adequacy of lighting, and other factors influencing traffic conditions, under direction of traffic engineer.

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	n	n
Local Government, ex. Education	n	n

53-6051 Transportation Inspectors



Inspect equipment or goods in connection with the safe transport of cargo or people. Include rail transport inspectors, such as freight inspectors, car inspectors, rail inspectors, and other nonprecision inspectors of other types of transportation vehicles. *Example: Aircraft Inspector*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 32.12
2014 Estimated Employment:	42
2024 Projected Employment:	45
Growth Rate, 2014-2024:	7.1%
Annual Openings:	1

Industry	2014 Share	2024 Share
488 Support Activities for Transportation	40.5%	42.2%
State Government, ex. Education and Hospitals	31.0%	31.1%
482 Rail Transportation	n	n
484 Truck Transportation	n	n
811 Repair and Maintenance	n	n
Federal Government, ex. Postal Service	n	n

53-6061 Transportation Attendants, Except Flight Attendants



Provide services to ensure the safety and comfort of passengers aboard ships, buses, trains, or within the station or terminal. Perform duties such as greeting passengers, explaining the use of safety equipment, serving meals or beverages, or answering questions related to travel.

Training Category: High School | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
487 Scenic and Sightseeing Transportation	n	n
488 Support Activities for Transportation	n	n

53-6099 Transportation Workers, All Other



All transportation workers not listed separately. *Example: Airplane Refueler*

Training Category: High School | none | Short OJT

2015 Average Wage:	\$ 15.33
2014 Estimated Employment:	79
2024 Projected Employment:	85
Growth Rate, 2014-2024:	7.6%
Annual Openings:	5

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	38.0%	37.7%
441 Motor Vehicle and Parts Dealers	22.8%	23.5%
423 Merchant Wholesalers, Durable Goods	n	n
481 Air Transportation	n	n
488 Support Activities for Transportation	n	n
524 Insurance Carriers & Related Activities	n	n

53-7011 Conveyor Operators and Tenders



Control or tend conveyors or conveyor systems that move materials or products to and from stockpiles, processing stations, departments, or vehicles. May control speed and routing of materials or products.

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 15.76
2014 Estimated Employment:	40
2024 Projected Employment:	41
Growth Rate, 2014-2024:	2.5%
Annual Openings:	1

Industry	2014 Share	2024 Share
221 Utilities	n	n
321 Wood Product Manufacturing	n	n
323 Printing and Related Support Activities	n	n
423 Merchant Wholesalers, Durable Goods	n	n
492 Couriers and Messengers	n	n
551 Management of Companies and Enterprises	n	n

53-7021 Crane and Tower Operators



Operate mechanical boom and cable or tower and cable equipment to lift and move materials, machines, or products in many directions. *Examples: Boomswing Operator; Scrap Drop Operator*

Training Category: High School | < 5 yrs | Moderate OJT

2015 Average Wage:	\$ 23.96
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
237 Heavy and Civil Engineering Construction	n	n
238 Specialty Trade Contractors	n	n
321 Wood Product Manufacturing	n	n
484 Truck Transportation	n	n
493 Warehousing and Storage	n	n
532 Rental and Leasing Services	n	n

53-7032 Excavating and Loading Machine and Dragline Operators



Operate or tend machinery equipped with scoops, shovels, or buckets, to excavate and load loose materials. *Examples: Back Hoe Operator; Payloader Operator; Shovel Operator*

Training Category: High School | < 5 yrs | Moderate OJT

2015 Average Wage:	\$ 21.08
2014 Estimated Employment:	454
2024 Projected Employment:	475
Growth Rate, 2014-2024:	4.6%
Annual Openings:	7

Industry	2014 Share	2024 Share
237 Heavy and Civil Engineering Construction	26.7%	26.3%
238 Specialty Trade Contractors	18.7%	18.7%
212 Mining (except Oil and Gas)	15.0%	15.2%
Self-Employed Workers	11.0%	11.2%
484 Truck Transportation	n	n
562 Waste Management and Remediation Service	n	n

53-7041 Hoist and Winch Operators



Operate or tend hoists or winches to lift and pull loads using power-operated cable equipment.

Training Category: none | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
332 Primary Metal Manufacturing	n	n

53-7051 Industrial Truck and Tractor Operators



Operate industrial trucks or tractors equipped to move materials around a warehouse, storage yard, factory, construction site, or similar location. *Examples: Skidder Operator; Stacker Operator*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 17.58
2014 Estimated Employment:	1,468
2024 Projected Employment:	1,511
Growth Rate, 2014-2024:	2.9%
Annual Openings:	40

Industry	2014 Share	2024 Share
444 Building Material & Garden Supply Stores	20.6%	19.8%
424 Merchant Wholesalers, Nondurable Goods	16.5%	16.2%
5613 Employment Services	9.1%	11.0%
493 Warehousing and Storage	6.5%	6.4%
326 Plastics & Rubber Products Manufacturing	4.5%	4.3%
562 Waste Management and Remediation Service	n	n

53-7061 Cleaners of Vehicles and Equipment



Wash or otherwise clean vehicles, machinery, and other equipment. Use such materials as water, cleaning agents, brushes, cloths, and hoses. *Examples: Barrel Washer; Auto Detailer; Machine Cleaner*

Training Category: none | none. | Short OJT

2015 Average Wage:	\$ 11.79
2014 Estimated Employment:	1,038
2024 Projected Employment:	1,137
Growth Rate, 2014-2024:	9.5%
Annual Openings:	46

Industry	2014 Share	2024 Share
441 Motor Vehicle and Parts Dealers	40.5%	39.9%
811 Repair and Maintenance	30.8%	31.4%
532 Rental and Leasing Services	5.9%	5.9%
713 Amusement, Gambling & Recreation Ind	5.2%	5.3%
Self-Employed Workers	5.1%	5.0%
424 Merchant Wholesalers, Nondurable Goods	2.9%	2.7%

53-7062 Laborers and Freight, Stock, and Material Movers, Hand



Manually move freight, stock, or other materials or perform other unskilled general labor. Include all unskilled manual laborers not elsewhere classified. *Examples: Cargo Handler; Stevedore; Truck Loader and Unloader*

Training Category: none | none. | Short OJT

2015 Average Wage:	\$ 12.86
2014 Estimated Employment:	6,626
2024 Projected Employment:	7,109
Growth Rate, 2014-2024:	7.3%
Annual Openings:	245

Industry	2014 Share	2024 Share
5613 Employment Services	15.4%	17.9%
492 Couriers and Messengers	10.5%	10.1%
452 General Merchandise Stores	9.5%	8.4%
424 Merchant Wholesalers, Nondurable Goods	7.6%	7.3%
423 Merchant Wholesalers, Durable Goods	7.4%	7.5%
493 Warehousing and Storage	6.4%	6.4%

53-7063 Machine Feeders and Offbearers



Feed materials into or remove materials from machines or equipment that is automatic or tended by other workers. *Examples: Hopper Filler; Board Catcher; Doffer*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 18.08
2014 Estimated Employment:	540
2024 Projected Employment:	548
Growth Rate, 2014-2024:	1.5%
Annual Openings:	13

Industry	2014 Share	2024 Share
493 Warehousing and Storage	56.9%	59.9%
339 Miscellaneous Manufacturing	19.3%	17.2%
323 Printing and Related Support Activities	5.6%	5.3%
327 Nonmetallic Mineral Product Mfg	4.4%	3.7%
311 Food Manufacturing	n	n
313 Textile Mills	n	n

53-7064 Packers and Packagers, Hand



Pack or package by hand a wide variety of products and materials. *Example: Boxer*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 11.58
2014 Estimated Employment:	1,975
2024 Projected Employment:	2,062
Growth Rate, 2014-2024:	4.4%
Annual Openings:	61

Industry	2014 Share	2024 Share
445 Food and Beverage Stores	33.7%	30.0%
5613 Employment Services	18.7%	22.2%
311 Food Manufacturing	6.4%	6.2%
424 Merchant Wholesalers, Nondurable Goods	5.9%	5.9%
493 Warehousing and Storage	4.3%	4.4%
454 Nonstore Retailers	3.9%	4.8%

53-7071 Gas Compressor and Gas Pumping Station Operators



Operate steam, gas, electric motor, or internal combustion engine driven compressors. Transmit, compress, or recover gases, such as butane, nitrogen, hydrogen, and natural gas.

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
486 Pipeline Transportation	n	n

53-7072 Pump Operators, Except Wellhead Pumpers



Pump Operators, Except Wellhead Pumpers

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 21.38
2014 Estimated Employment:	59
2024 Projected Employment:	62
Growth Rate, 2014-2024:	5.1%
Annual Openings:	3

Industry	2014 Share	2024 Share
Self-Employed Workers	5.1%	6.5%
424 Merchant Wholesalers, Nondurable Goods	n	n
562 Waste Management and Remediation Service	n	n

53-7081 Refuse and Recyclable Material Collectors



Collect and dump refuse or recyclable materials from containers into truck. May drive truck.

Training Category: none | none. | Short OJT

2015 Average Wage:	\$ 15.24
2014 Estimated Employment:	787
2024 Projected Employment:	849
Growth Rate, 2014-2024:	7.9%
Annual Openings:	26

Industry	2014 Share	2024 Share
Local Government, ex. Education	67.1%	65.8%
562 Waste Management and Remediation Service	15.0%	15.8%
Self-Employed Workers	9.0%	8.7%
5613 Employment Services	5.7%	6.6%
622 Hospitals	1.5%	1.5%
6113 Colleges and Universities	1.4%	1.3%

53-7121 Tank Car, Truck, and Ship Loaders



Load and unload chemicals and bulk solids, such as coal, sand, and grain into or from tank cars, trucks, or ships using material moving equipment. May perform a variety of other tasks relating to shipment of products. May gauge or sample shipping tanks and test them for leaks. *Examples: Coal Dumping Equipment Operator; Loader Operator; Spout Tender*

Training Category: none | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
327 Nonmetallic Mineral Product Mfg	n	n
423 Merchant Wholesalers, Durable Goods	n	n

53-7199 Material Moving Workers, All Other



All material moving workers not listed separately. *Examples: Elevator Operator; Hand Trucker; Longshore Equipment Operator*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 12.00
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
221 Utilities	n	n
484 Truck Transportation	n	n
5613 Employment Services	n	n
562 Waste Management and Remediation Service	n	n
State Government, ex. Education and Hospitals	n	n

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35-3011	Bartenders	98
49-3091	Bicycle Repairers	149
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43-3021	Billing and Posting Clerks	116
19-1021	Biochemists and Biophysicists	31
25-1042	Biological Science Teachers, Postsecondary	48
19-1029	Biological Scientists, All Other	31
19-4021	Biological Technicians	38
17-2031	Biomedical Engineers	23
47-2011	Boilermakers	132
43-3031	Bookkeeping, Accounting, and Auditing Clerks	116
47-2021	Brickmasons and Blockmasons	132
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27-3021	Broadcast News Analysts	67
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37-2019	Building Cleaning Workers, All Other	101
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53-3022	Bus Drivers, School or Special Client	184
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13-1199	Business Operations Specialists, All Other	13
25-1011	Business Teachers, Postsecondary	46
51-3021	Butchers and Meat Cutters	158
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51-7011	Cabinetmakers and Bench Carpenters	171
27-4031	Camera Operators, Television, Video, and Motion Picture	70
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29-2031	Cardiovascular Technologists and Technicians	80
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47-2041	Carpet Installers	133
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41-2011	Cashiers	110
47-2051	Cement Masons and Concrete Finishers	134
35-1011	Chefs and Head Cooks	96
17-2041	Chemical Engineers	23
51-9011	Chemical Equipment Operators and Tenders	174
51-8091	Chemical Plant and System Operators	173
19-4031	Chemical Technicians	38
25-1052	Chemistry Teachers, Postsecondary	48
19-2031	Chemists	34
11-1011	Chief Executives	1
21-1021	Child, Family, and School Social Workers	41
39-9011	Childcare Workers	108
29-1011	Chiropractors	71
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17-3022	Civil Engineering Technicians	28
17-2051	Civil Engineers	24
13-1031	Claims Adjusters, Examiners, and Investigators	10
53-7061	Cleaners of Vehicles and Equipment	191
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	180
21-2011	Clergy	44
19-3031	Clinical, Counseling, and School Psychologists	36
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51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	178
51-2021	Coil Winders, Tapers, and Finishers	156
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	153
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	98
27-1021	Commercial and Industrial Designers	62
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53-2012	Commercial Pilots	183
43-2099	Communications Equipment Operators, All Other	115
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13-1141	Compensation, Benefits, and Job Analysis Specialists	13
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15-1111	Computer and Information Research Scientists	17
11-3021	Computer and Information Systems Managers	3
17-2061	Computer Hardware Engineers	24
15-1143	Computer Network Architects	19
15-1152	Computer Network Support Specialists	20
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	160
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11-9021	Construction Managers	5
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	150
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21-1019	Counselors, All Other	41
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43-5021	Couriers and Messengers	122
23-2091	Court Reporters	46
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27-1012	Craft Artists	61
53-7021	Crane and Tower Operators	190
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43-4041	Credit Authorizers, Checkers, and Clerks	118
13-2071	Credit Counselors	16
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	52
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27-1029	Designers, All Other	64
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29-2051	Dietetic Technicians	82
29-1031	Dietitians and Nutritionists	73
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27-3041	Editors	68
11-9039	Education Administrators, All Other	6
11-9032	Education Administrators, Elementary and Secondary School	5
11-9033	Education Administrators, Postsecondary	6
11-9031	Education Administrators, Preschool and Child Care Center/Program	5
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25-9099	Education, Training, and Library Workers, All Other	61
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51-2022	Electrical and Electronic Equipment Assemblers	156
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17-3029	Engineering Technicians, Except Drafters, All Other	29
17-2199	Engineers, All Other	26
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39-3099	Entertainment Attendants and Related Workers, All Other	105
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17-2081	Environmental Engineers	25
19-4091	Environmental Science and Protection Technicians, Including Health	39
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19-2041	Environmental Scientists and Specialists, Including Health	34
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51-7021	Furniture Finishers	171
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25-1071	Health Specialties Teachers, Postsecondary	51
29-2099	Health Technologists and Technicians, All Other	85
29-9099	Healthcare Practitioners and Technical Workers, All Other	86
21-1022	Healthcare Social Workers	42
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51-9198	Helpers--Production Workers	181
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19-3093	Historians	37
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11-3051	Industrial Production Managers	3
53-7051	Industrial Truck and Tractor Operators	190
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49-9099	Installation, Maintenance, and Repair Workers, All Other	155
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43-4111	Interviewers, Except Eligibility and Loan	120
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	100
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25-2012	Kindergarten Teachers, Except Special Education	55
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53-7062	Laborers and Freight, Stock, and Material Movers, Hand	191
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23-1011	Lawyers	44
51-4192	Layout Workers, Metal and Plastic	166
43-6012	Legal Secretaries	125
23-2099	Legal Support Workers, All Other	46
11-1031	Legislators	1
25-4021	Librarians	60
43-4121	Library Assistants, Clerical	120
25-4031	Library Technicians	60
29-2061	Licensed Practical and Licensed Vocational Nurses	84
19-1099	Life Scientists, All Other	33
19-4099	Life, Physical, and Social Science Technicians, All Other	40
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	95
53-3033	Light Truck or Delivery Services Drivers	185
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49-9095	Manufactured Building and Mobile Home Installers	154
13-1161	Market Research Analysts and Marketing Specialists	13
11-2021	Marketing Managers	2
21-1013	Marriage and Family Therapists	40
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53-7199	Material Moving Workers, All Other	193
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19-2032	Materials Scientists	34
15-2099	Mathematical Science Occupations, All Other	21
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15-2091	Mathematical Technicians	21
15-2021	Mathematicians	20
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49-9011	Mechanical Door Repairers	150
17-3013	Mechanical Drafters	27
17-3027	Mechanical Engineering Technicians	29
17-2141	Mechanical Engineers	26
27-4099	Media and Communication Equipment Workers, All Other	71
27-3099	Media and Communication Workers, All Other	69
29-2012	Medical and Clinical Laboratory Technicians	80
29-2011	Medical and Clinical Laboratory Technologists	80
11-9111	Medical and Health Services Managers	7
51-9082	Medical Appliance Technicians	177
31-9092	Medical Assistants	89
31-9093	Medical Equipment Preparers	89
49-9062	Medical Equipment Repairers	152
29-2071	Medical Records and Health Information Technicians	84
19-1042	Medical Scientists, Except Epidemiologists	32
43-6013	Medical Secretaries	125
31-9094	Medical Transcriptionists	89
13-1121	Meeting, Convention, and Event Planners	12
21-1023	Mental Health and Substance Abuse Social Workers	42
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17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	26
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51-4061	Model Makers, Metal and Plastic	163
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51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	180
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	164
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39-3021	Motion Picture Projectionists	104
53-3099	Motor Vehicle Operators, All Other	185
49-3051	Motorboat Mechanics and Service Technicians	148
53-5022	Motorboat Operators	187
49-3052	Motorcycle Mechanics	149
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51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	164
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27-2042	Musicians and Singers	66
11-9121	Natural Sciences Managers	8
15-1142	Network and Computer Systems Administrators	19
43-4141	New Accounts Clerks	120
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29-2033	Nuclear Medicine Technologists	81
51-8011	Nuclear Power Reactor Operators	172
19-4051	Nuclear Technicians	38
29-1151	Nurse Anesthetists	78
29-1161	Nurse Midwives	79
29-1171	Nurse Practitioners	79
31-1014	Nursing Assistants	87
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31-2011	Occupational Therapist Assistants	87
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29-2057	Ophthalmic Medical Technicians	83
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29-1041	Optometrists	73
29-1022	Oral and Maxillofacial Surgeons	72
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31-1015	Orderlies	87
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29-2091	Orthotists and Prosthetists	84
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	149
51-9111	Packaging and Filling Machine Operators and Tenders	178
53-7064	Packers and Packagers, Hand	191
47-2141	Painters, Construction and Maintenance	137
51-9122	Painters, Transportation Equipment	178
51-9123	Painting, Coating, and Decorating Workers	179
51-9196	Paper Goods Machine Setters, Operators, and Tenders	181
47-2142	Paperhangers	137
23-2011	Paralegals and Legal Assistants	45
33-3041	Parking Enforcement Workers	93
53-6021	Parking Lot Attendants	188
41-2022	Parts Salespersons	110
51-4062	Patternmakers, Metal and Plastic	164
47-2071	Paving, Surfacing, and Tamping Equipment Operators	135
43-3051	Payroll and Timekeeping Clerks	117
29-1065	Pediatricians, General	74
39-9021	Personal Care Aides	108
39-9099	Personal Care and Service Workers, All Other	109
13-2052	Personal Financial Advisors	15
37-2021	Pest Control Workers	101
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	102
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	174
29-1051	Pharmacists	73
31-9095	Pharmacy Aides	90
29-2052	Pharmacy Technicians	82
25-1126	Philosophy and Religion Teachers, Postsecondary	54
31-9097	Phlebotomists	90
27-4021	Photographers	70
51-9151	Photographic Process Workers and Processing Machine Operators	179
19-2099	Physical Scientists, All Other	35
31-2022	Physical Therapist Aides	88
31-2021	Physical Therapist Assistants	88
29-1123	Physical Therapists	76
29-1071	Physician Assistants	75
29-1069	Physicians and Surgeons, All Other	75
19-2012	Physicists	33

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25-1054	Physics Teachers, Postsecondary	49
47-2072	Pile-Driver Operators	135
47-2151	Pipelayers	137
51-8099	Plant and System Operators, All Other	174
47-2161	Plasterers and Stucco Masons	138
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	166
47-2152	Plumbers, Pipefitters, and Steamfitters	137
29-1081	Podiatrists	76
33-3051	Police and Sheriff's Patrol Officers	94
43-5031	Police, Fire, and Ambulance Dispatchers	122
25-1065	Political Science Teachers, Postsecondary	50
19-3094	Political Scientists	37
43-5051	Postal Service Clerks	123
43-5052	Postal Service Mail Carriers	123
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	124
11-9131	Postmasters and Mail Superintendents	8
25-1199	Postsecondary Teachers, All Other	55
51-4052	Pourers and Casters, Metal	163
51-8012	Power Distributors and Dispatchers	172
51-8013	Power Plant Operators	173
49-9069	Precision Instrument and Equipment Repairers, All Other	153
51-5111	Prepress Technicians and Workers	167
25-2011	Preschool Teachers, Except Special Education	55
51-6021	Pressers, Textile, Garment, and Related Materials	168
51-5113	Print Binding and Finishing Workers	167
51-5112	Printing Press Operators	167
33-9021	Private Detectives and Investigators	94
21-1092	Probation Officers and Correctional Treatment Specialists	43
43-3061	Procurement Clerks	117
27-2012	Producers and Directors	65
51-9199	Production Workers, All Other	181
43-5061	Production, Planning, and Expediting Clerks	124
43-9081	Proofreaders and Copy Markers	128
11-9141	Property, Real Estate, and Community Association Managers	8
29-1024	Prosthodontists	72
33-9099	Protective Service Workers, All Other	95
31-1013	Psychiatric Aides	87
29-2053	Psychiatric Technicians	82
29-1066	Psychiatrists	75
19-3039	Psychologists, All Other	36
25-1066	Psychology Teachers, Postsecondary	50
27-3012	Public Address System and Other Announcers	67
11-2031	Public Relations and Fundraising Managers	2
27-3031	Public Relations Specialists	68
53-7072	Pump Operators, Except Wellhead Pumpers	192
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	10
11-3061	Purchasing Managers	3
29-1124	Radiation Therapists	76

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27-3011	Radio and Television Announcers	67
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairs	144
29-2034	Radiologic Technologists and Technicians	81
53-4099	Rail Transportation Workers, All Other	186
53-4021	Railroad Brake, Signal, and Switch Operators	186
53-4031	Railroad Conductors and Yardmasters	186
47-4061	Rail-Track Laying and Maintenance Equipment Operators	142
41-9021	Real Estate Brokers	113
41-9022	Real Estate Sales Agents	113
43-4171	Receptionists and Information Clerks	121
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	54
39-9032	Recreation Workers	109
29-1125	Recreational Therapists	77
49-3092	Recreational Vehicle Service Technicians	149
53-7081	Refuse and Recyclable Material Collectors	192
29-1141	Registered Nurses	78
21-1015	Rehabilitation Counselors	41
47-2171	Reinforcing Iron and Rebar Workers	138
21-2099	Religious Workers, All Other	44
27-3022	Reporters and Correspondents	68
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	121
39-9041	Residential Advisors	109
29-1126	Respiratory Therapists	77
29-2054	Respiratory Therapy Technicians	83
41-2031	Retail Salespersons	111
49-9096	Riggers	154
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	161
47-2181	Roofers	138
53-5011	Sailors and Marine Oilers	187
41-9099	Sales and Related Workers, All Other	114
41-9031	Sales Engineers	114
11-2022	Sales Managers	2
41-3099	Sales Representatives, Services, All Other	112
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	112
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	112
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	171
25-2031	Secondary School Teachers, Except Special and Vocational Education	56
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	126
41-3031	Securities, Commodities, and Financial Services Sales Agents	111
49-2098	Security and Fire Alarm Systems Installers	146
33-9032	Security Guards	94
25-3021	Self-Enrichment Education Teachers	58
51-9141	Semiconductor Processors	179
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	175
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	142
27-1027	Set and Exhibit Designers	64
51-6051	Sewers, Hand	168
51-6031	Sewing Machine Operators	168

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39-5093	Shampooers	107
47-2211	Sheet Metal Workers	138
53-5031	Ship Engineers	187
43-5071	Shipping, Receiving, and Traffic Clerks	124
51-6041	Shoe and Leather Workers and Repairers	168
49-9097	Signal and Track Switch Repairers	155
39-5094	Skincare Specialists	107
51-3023	Slaughterers and Meat Packers	159
11-9151	Social and Community Service Managers	8
21-1093	Social and Human Service Assistants	43
19-4061	Social Science Research Assistants	39
25-1069	Social Sciences Teachers, Postsecondary, All Other	51
19-3099	Social Scientists and Related Workers, All Other	37
25-1113	Social Work Teachers, Postsecondary	52
21-1029	Social Workers, All Other	42
25-1067	Sociology Teachers, Postsecondary	50
15-1132	Software Developers, Applications	18
15-1133	Software Developers, Systems Software	18
19-1013	Soil and Plant Scientists	30
27-4014	Sound Engineering Technicians	70
25-2059	Special Education Teachers, All Other	58
25-2052	Special Education Teachers, Kindergarten and Elementary School	57
25-2053	Special Education Teachers, Middle School	57
25-2051	Special Education Teachers, Preschool	57
25-2054	Special Education Teachers, Secondary School	57
29-1127	Speech-Language Pathologists	77
51-8021	Stationary Engineers and Boiler Operators	173
43-9111	Statistical Assistants	128
15-2041	Statisticians	21
43-5081	Stock Clerks and Order Fillers	124
47-2022	Stonemasons	133
47-2221	Structural Iron and Steel Workers	139
51-2041	Structural Metal Fabricators and Fitters	157
21-1011	Substance Abuse and Behavioral Disorder Counselors	40
25-3098	Substitute Teachers	59
29-1067	Surgeons	75
29-2055	Surgical Technologists	83
19-3022	Survey Researchers	35
17-3031	Surveying and Mapping Technicians	30
17-1022	Surveyors	22
43-2011	Switchboard Operators, Including Answering Service	115
51-6052	Tailors, Dressmakers, and Custom Sewers	169
53-7121	Tank Car, Truck, and Ship Loaders	192
47-2082	Tapers	136
13-2081	Tax Examiners, Collectors, and Revenue Agents	16
13-2082	Tax Preparers	16
53-3041	Taxi Drivers and Chauffeurs	185
25-9041	Teacher Assistants	61

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25-3097	Teachers and Instructors, All Other, Except Substitute Teachers	58
51-2092	Team Assemblers	157
27-3042	Technical Writers	68
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	144
49-9052	Telecommunications Line Installers and Repairers	152
41-9041	Telemarketers	114
43-2021	Telephone Operators	115
43-3071	Tellers	117
51-6061	Textile Bleaching and Dyeing Machine Operators and Tenders	169
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	169
51-6063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	169
51-6064	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	170
51-6099	Textile, Apparel, and Furnishings Workers, All Other	171
29-1129	Therapists, All Other	78
47-2044	Tile and Marble Setters	134
51-2093	Timing Device Assemblers and Adjusters	158
51-9197	Tire Builders	181
49-3093	Tire Repairers and Changers	150
23-2093	Title Examiners, Abstractors, and Searchers	46
51-4111	Tool and Die Makers	165
51-4194	Tool Grinders, Filers, and Sharpeners	166
39-7011	Tour Guides and Escorts	108
53-6041	Traffic Technicians	188
11-3131	Training and Development Managers	4
13-1151	Training and Development Specialists	13
53-6061	Transportation Attendants, Except Flight Attendants	189
53-6051	Transportation Inspectors	189
33-9093	Transportation Security Screeners	95
53-6099	Transportation Workers, All Other	189
11-3071	Transportation, Storage, and Distribution Managers	4
41-3041	Travel Agents	112
37-3013	Tree Trimmers and Pruners	102
27-2023	Umpires, Referees, and Other Sports Officials	65
51-6093	Upholsterers	170
19-3051	Urban and Regional Planners	36
39-3031	Ushers, Lobby Attendants, and Ticket Takers	104
29-1131	Veterinarians	78
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	90
29-2056	Veterinary Technologists and Technicians	83
25-1194	Vocational Education Teachers, Postsecondary	54
35-3031	Waiters and Waitresses	98
49-9064	Watch Repairers	153
51-8031	Water and Wastewater Treatment Plant and System Operators	173
15-1134	Web Developers	18
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	125
51-4121	Welders, Cutters, Solderers, and Brazers	165
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	165
13-1022	Wholesale and Retail Buyers, Except Farm Products	10

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51-7099	Woodworkers, All Other	172
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	172
43-9022	Word Processors and Typists	126
27-3043	Writers and Authors	69
19-1023	Zoologists and Wildlife Biologists	31