

New Hampshire Job Outlook and Locator by Industry and Occupation

base year 201**6** to
projected year 202**6**



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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 770 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 2016, as each occupation lists the top six industries in descending order of employment based on the share of total jobs in 2016.

- 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 2016-2026 projections of industries and occupations developed by New Hampshire Employment Security’s Economic and Labor Market Information Bureau for the base year of 2016 and projected to 2026.

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.

Entry-Level Education, Work Experience, and Post-Hire Training

For each occupation, the typical education, related work experience, and post-hire training expected of entry-level workers have been identified. The first two categories show the educational attainment and work experience in a related occupation expected before an individual is employed. The last category refers to on-the-job training, apprenticeship, internship, or residency typically conducted after employment.

Educational Attainment

These categories indicate the typical level of education most workers need for an entry-level position in the occupation:

- 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 work experience in a related occupation as an entry-level qualification. Frequently, these occupations are managerial or 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 or Industrial truck and tractor operators*. The work experience categories are: *less than five years, five years or more, or none*.

Post-Hire Training

This category identifies 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:

- Internship or residency
- Apprenticeship
- Long-term on-the-job training (over 12 months)
- Moderate-term on-the-job training (one to 12 months)
- Short-term on-the-job training (one month or less of informal training)
- None

Occupational Outlook Indicators

Each occupation in the *Job Locator* includes a symbol that indicates the expected employment prospects for an occupation. The outlook is based on two factors: the projected growth rate and the projected number of openings for the occupation from 2016 to 2026.

- ↑ **Very Favorable.** Occupations that combine a high rate of growth and a large number of annual job openings are described as *very favorable*. These occupations are expected to provide the best employment opportunities through 2026.
- ↗ **Favorable.** Occupations that have a low rate of growth combined with a very high or high number of job openings are considered *favorable*. An occupation may also be *favorable* if the growth rate is better than average but the number of job openings is below average; or the growth rate is average and the number of job openings is average or better.
- ↘ **Less Favorable.** Occupations considered *less favorable* have better expected opportunities than the least favorable category, either because of a higher growth rate or a larger number of projected job openings.
- ↓ **Not Favorable.** Occupations identified as *not favorable* have a negative rate of growth and few annual openings per year. These occupations are not expected to be significant sources of jobs through 2026.

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.

The diagram illustrates the layout of an occupation entry for 'Information Security Analysts' (SOC code 15-1122). The entry is organized into several sections, each indicated by a numbered callout:

- 1**: SOC code and Occupational Title (15-1122 Information Security Analysts)
- 2**: Occupational Descriptor (Information Security Analysts)
- 3**: Occupational Description (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)
- 4**: Education, Experience and Training (Training Category: Bachelor's | < 5 yrs | none)
- 5**: Wage and Employment Statistics (2017 Average Wage: \$48.27, 2016 Estimated Employment: 367, 2026 Projected Employment: 469, Growth Rate, 2016-2026: 27.8%, Annual Openings: 37)
- 6**: Industry and NAICS code (List of industries: 524 Insurance Carriers and Related Activities, 518 Data Processing, Hosting, and Related Services, 5415 Computer Systems Design and Related Services, 334 Computer and Electronic Product Manufacturing, 522 Credit Intermediation and Related Activities, 523 Financial Investment and Related Activities)
- 7**: An 'n' indicates that the data do not meet disclosure standards.

- 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 v 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** **2017 Mean (Average) Wage in New Hampshire:** Hourly wage based on the May 2016 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.
2016 Estimated Employment: Number of workers estimated to be employed in an occupation in 2016.
2026 Projected Employment: Number of workers projected to be employed in an occupation in 2026.
Growth Rate, 2016-2026: Percent change in employment from 2016 to 2026.
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 2016 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's | 5+ yrs | none

2017 Average Wage:	\$97.00
2016 Estimated Employment:	1,188
2026 Projected Employment:	1,133
Growth Rate, 2016-2026:	-4.6%
Annual Openings:	76

Industry	2016 Share	2026 Share
Self-employed Workers	20.3%	22.4%
6111 Elementary and Secondary Schools	17.3%	15.7%
551 Management of Companies and Enterprises	4.9%	4.8%
813 Membership Organizations	4.0%	3.9%
5611 Office Administrative Services	3.6%	4.1%
523 Financial Investment and Related Activities	n	n

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's | 5+ yrs | none

2017 Average Wage:	\$62.39
2016 Estimated Employment:	11,340
2026 Projected Employment:	12,289
Growth Rate, 2016-2026:	8.4%
Annual Openings:	1,045

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	7.2%	6.8%
423 Merchant Wholesalers, Durable Goods	4.3%	4.5%
441 Motor Vehicle and Parts Dealers	4.2%	4.2%
238 Specialty Trade Contractors	3.1%	3.2%
813 Membership Organizations	3.0%	3.0%
722 Food Services and Drinking Places	3.0%	3.0%

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's | < 5 yrs | none

2017 Average Wage:	\$20,976
2016 Estimated Employment:	391
2026 Projected Employment:	412
Growth Rate, 2016-2026:	5.4%
Annual Openings:	30

Industry	2016 Share	2026 Share
Local Government, Excluding 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's | < 5 yrs | none

2017 Average Wage:	\$44.00
2016 Estimated Employment:	162
2026 Projected Employment:	177
Growth Rate, 2016-2026:	9.3%
Annual Openings:	19

Industry	2016 Share	2026 Share
813 Membership Organizations	25.9%	25.4%
5418 Advertising, Public Relations, and Related Services	14.8%	16.4%
722 Food Services and Drinking Places	13.6%	13.6%
713 Amusement, Gambling, and Recreation	6.2%	6.2%
441 Motor Vehicle and Parts Dealers	5.6%	5.7%
519 Other Information Services	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's | 5+ yrs | none

2017 Average Wage:	\$64.99
2016 Estimated Employment:	1,209
2026 Projected Employment:	1,317
Growth Rate, 2016-2026:	8.9%
Annual Openings:	117

Industry	2016 Share	2026 Share
551 Management of Companies and Enterprises	11.7%	11.7%
334 Computer and Electronic Product Manufacturing	10.5%	8.7%
5415 Computer Systems Design and Related Services	9.4%	10.6%
511 Publishing Industries (except Internet)	8.1%	7.7%
425 Wholesale Electronic Markets and Agents/Brokers	5.1%	4.9%
5611 Office Administrative Services	4.5%	5.2%

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's | < 5 yrs | none

2017 Average Wage:	\$69.15
2016 Estimated Employment:	1,823
2026 Projected Employment:	1,985
Growth Rate, 2016-2026:	8.9%
Annual Openings:	175

Industry	2016 Share	2026 Share
425 Wholesale Electronic Markets and Agents/Brokers	9.3%	9.1%
441 Motor Vehicle and Parts Dealers	9.3%	9.8%
5415 Computer Systems Design and Related Services	7.1%	8.0%
523 Financial Investment and Related Activities	7.0%	7.1%
551 Management of Companies and Enterprises	6.8%	6.8%
423 Merchant Wholesalers, Durable Goods	6.3%	6.5%

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's | 5+ yrs | none

2017 Average Wage:	\$59.79
2016 Estimated Employment:	472
2026 Projected Employment:	525
Growth Rate, 2016-2026:	11.2%
Annual Openings:	44

Industry	2016 Share	2026 Share
6113 Colleges and Universities	30.5%	29.0%
813 Membership Organizations	20.6%	21.0%
551 Management of Companies and Enterprises	9.3%	9.1%
5418 Advertising, Public Relations, and Related Services	8.5%	9.1%
6111 Elementary and Secondary Schools	7.2%	6.9%
622 Hospitals	4.5%	4.4%

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's | < 5 yrs | none

2017 Average Wage:	\$44.99
2016 Estimated Employment:	857
2026 Projected Employment:	920
Growth Rate, 2016-2026:	7.4%
Annual Openings:	76

Industry	2016 Share	2026 Share
6113 Colleges and Universities	17.5%	17.1%
6111 Elementary and Secondary Schools	7.5%	7.3%
524 Insurance Carriers and Related Activities	5.3%	5.3%
622 Hospitals	5.3%	5.2%
Local Government, Excluding Education	5.1%	5.1%
441 Motor Vehicle and Parts Dealers	4.1%	4.4%

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's | 5+ yrs | none

2017 Average Wage:	\$69.13
2016 Estimated Employment:	1,952
2026 Projected Employment:	2,163
Growth Rate, 2016-2026:	10.8%
Annual Openings:	169

Industry	2016 Share	2026 Share
5415 Computer Systems Design and Related Services	20.5%	22.8%
524 Insurance Carriers and Related Activities	10.9%	10.6%
511 Publishing Industries (except Internet)	8.6%	8.6%
425 Wholesale Electronic Markets and Agents/Brokers	6.3%	6.1%
6113 Colleges and Universities	5.4%	5.0%
551 Management of Companies and Enterprises	5.2%	5.1%

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's | 5+ yrs | none

2017 Average Wage:	\$59.11
2016 Estimated Employment:	3,884
2026 Projected Employment:	4,596
Growth Rate, 2016-2026:	18.3%
Annual Openings:	379

Industry	2016 Share	2026 Share
522 Credit Intermediation and Related Activities	16.3%	15.6%
551 Management of Companies and Enterprises	7.6%	7.7%
524 Insurance Carriers and Related Activities	4.7%	4.5%
6113 Colleges and Universities	4.2%	4.1%
5412 Accounting and Bookkeeping Services	3.4%	3.6%
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's | 5+ yrs | none

2017 Average Wage:	\$59.48
2016 Estimated Employment:	992
2026 Projected Employment:	979
Growth Rate, 2016-2026:	-1.3%
Annual Openings:	67

Industry	2016 Share	2026 Share
334 Computer and Electronic Product Manufacturing	28.5%	26.7%
332 Fabricated Metal Product Manufacturing	12.0%	12.2%
326 Plastics and Rubber Products Manufacturing	10.2%	9.9%
333 Machinery Manufacturing	7.2%	7.6%
339 Miscellaneous Manufacturing	5.1%	4.9%
325 Chemical Manufacturing	4.5%	5.4%

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's | 5+ yrs | none

2017 Average Wage:	\$55.11
2016 Estimated Employment:	359
2026 Projected Employment:	376
Growth Rate, 2016-2026:	4.7%
Annual Openings:	31

Industry	2016 Share	2026 Share
334 Computer and Electronic Product Manufacturing	18.1%	16.0%
551 Management of Companies and Enterprises	17.3%	18.1%
333 Machinery Manufacturing	5.9%	5.9%
332 Fabricated Metal Product Manufacturing	5.3%	5.1%
423 Merchant Wholesalers, Durable Goods	3.9%	4.3%
325 Chemical Manufacturing	n	n

11-3071 Transportation, Storage, and Distribution Managers



Plan, direct, or coordinate transportation, storage, or distribution activities in accordance with governmental policies and regulations. Include logistics managers. *Examples: Distribution Center Manager; Traffic Safety Administrator; Warehouse Manager*

Training Category: High School | 5+ yrs | none

2017 Average Wage:	\$50.30
2016 Estimated Employment:	297
2026 Projected Employment:	312
Growth Rate, 2016-2026:	5.1%
Annual Openings:	25

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	31.7%	30.1%
423 Merchant Wholesalers, Durable Goods	3.0%	3.2%
334 Computer and Electronic Product Manufacturing	n	n
424 Merchant Wholesalers, Nondurable Goods	n	n
493 Warehousing and Storage	n	n
551 Management of Companies and Enterprises	n	n

11-3111 Compensation and Benefits Managers



Plan direct, or coordinate compensation and benefits activities of an organization. *Examples: Compensation Director; Employee Benefits Director; Wage and Salary Administrator*

Training Category: Bachelor's | 5+ yrs | none

2017 Average Wage:	\$54.66
2016 Estimated Employment:	56
2026 Projected Employment:	61
Growth Rate, 2016-2026:	8.9%
Annual Openings:	4

Industry	2016 Share	2026 Share
622 Hospitals	17.9%	16.4%
551 Management of Companies and Enterprises	16.1%	14.8%
5412 Accounting and Bookkeeping Services	8.9%	9.8%
454 Nonstore Retailers	7.1%	8.2%
441 Motor Vehicle and Parts Dealers	n	n
5611 Office Administrative Services	n	n

11-3121 Human Resources Managers



Plan, direct, or coordinate human resource activities and staff of an organization. *Examples: Job Analysis Manager; Labor Relations Director; Personnel Manager*

Training Category: Bachelor's | 5+ yrs | none

2017 Average Wage:	\$55.30
2016 Estimated Employment:	615
2026 Projected Employment:	665
Growth Rate, 2016-2026:	8.1%
Annual Openings:	55

Industry	2016 Share	2026 Share
551 Management of Companies and Enterprises	21.3%	21.7%
5613 Employment Services	6.5%	6.0%
622 Hospitals	6.2%	6.0%
6113 Colleges and Universities	5.5%	5.3%
334 Computer and Electronic Product Manufacturing	4.4%	3.6%
5611 Office Administrative Services	4.4%	5.1%

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's | 5+ yrs | none

2017 Average Wage:	\$54.36
2016 Estimated Employment:	96
2026 Projected Employment:	105
Growth Rate, 2016-2026:	9.4%
Annual Openings:	10

Industry	2016 Share	2026 Share
524 Insurance Carriers and Related Activities	20.8%	20.0%
551 Management of Companies and Enterprises	11.5%	11.4%
622 Hospitals	11.5%	11.4%
334 Computer and Electronic Product Manufacturing	6.3%	5.7%
State Government, excl. Education and Hospitals	6.3%	5.7%
333 Machinery Manufacturing	5.2%	5.7%

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+ yrs | none

2017 Average Wage:	n/a
2016 Estimated Employment:	4,124
2026 Projected Employment:	4,046
Growth Rate, 2016-2026:	-1.9%
Annual Openings:	292

Industry		2016 Share	2026 Share
	Self-employed Workers	91.8%	90.7%
111	Crop Production	5.0%	5.6%
112	Animal Production	3.1%	3.5%

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's | none | Moderate OJT

2017 Average Wage:	\$45.68
2016 Estimated Employment:	1,464
2026 Projected Employment:	1,596
Growth Rate, 2016-2026:	9.0%
Annual Openings:	116

Industry		2016 Share	2026 Share
	Self-employed Workers	34.4%	33.5%
236	Construction of Buildings	27.9%	29.0%
238	Specialty Trade Contractors	13.5%	13.6%
237	Heavy and Civil Engineering Construction	6.3%	6.7%
	Local Government, Excluding Education	3.8%	3.6%
517	Telecommunications	n	n

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's | < 5 yrs | none

2017 Average Wage:	\$21.83
2016 Estimated Employment:	479
2026 Projected Employment:	525
Growth Rate, 2016-2026:	9.6%
Annual Openings:	42

Industry		2016 Share	2026 Share
624	Social Assistance	87.3%	87.1%
6111	Elementary and Secondary Schools	4.6%	4.4%
	Self-employed Workers	4.0%	4.2%
813	Membership Organizations	1.0%	1.1%
551	Management of Companies and Enterprises	n	n
622	Hospitals	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: Master's | 5+ yrs | none

2017 Average Wage:	\$86,581
2016 Estimated Employment:	1,442
2026 Projected Employment:	1,476
Growth Rate, 2016-2026:	2.4%
Annual Openings:	110

Industry		2016 Share	2026 Share
6111	Elementary and Secondary Schools	94.1%	94.0%
	Local Government, Excluding Education	4.7%	4.8%
	Self-employed Workers	0.8%	0.9%

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: Master's | < 5 yrs | none

2017 Average Wage:	\$50.70
2016 Estimated Employment:	818
2026 Projected Employment:	861
Growth Rate, 2016-2026:	5.3%
Annual Openings:	66

Industry	2016 Share	2026 Share
6113 Colleges and Universities	89.1%	88.9%
6115 Technical and Trade Schools	2.1%	2.1%
Self-employed Workers	2.2%	2.3%
6112 Junior Colleges	n	n
6114 Business, Computer, and Management Training	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's | < 5 yrs | none

2017 Average Wage:	\$30.43
2016 Estimated Employment:	101
2026 Projected Employment:	112
Growth Rate, 2016-2026:	10.9%
Annual Openings:	9

Industry	2016 Share	2026 Share
6116 Other Schools and Instruction	29.7%	34.8%
6114 Business, Computer, and Management Training	12.9%	9.8%
6115 Technical and Trade Schools	10.9%	10.7%
6111 Elementary and Secondary Schools	n	n
622 Hospitals	n	n
624 Social Assistance	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's | 5+ yrs | none

2017 Average Wage:	\$71.08
2016 Estimated Employment:	1,162
2026 Projected Employment:	1,186
Growth Rate, 2016-2026:	2.1%
Annual Openings:	82

Industry	2016 Share	2026 Share
334 Computer and Electronic Product Manufacturing	29.9%	27.0%
5413 Architectural and Engineering Services	18.4%	19.9%
333 Machinery Manufacturing	8.5%	8.7%
332 Fabricated Metal Product Manufacturing	5.8%	5.7%
551 Management of Companies and Enterprises	5.3%	5.7%
425 Wholesale Electronic Markets and Agents/Brokers	3.4%	3.5%

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

2017 Average Wage:	\$27.96
2016 Estimated Employment:	1,671
2026 Projected Employment:	1,838
Growth Rate, 2016-2026:	10.0%
Annual Openings:	202

Industry	2016 Share	2026 Share
722 Food Services and Drinking Places	53.8%	54.5%
Self-employed Workers	30.8%	30.1%
5611 Office Administrative Services	3.0%	3.4%
6111 Elementary and Secondary Schools	3.0%	2.6%
551 Management of Companies and Enterprises	2.6%	2.6%
6113 Colleges and Universities	1.6%	1.6%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 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. *Examples: Casino Manager; Slot Operations Manager; Table Games Manager*

Training Category: High School | < 5 yrs | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
713	Amusement, Gambling, and Recreation	100.0%	100.0%

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

2017 Average Wage:	\$30.65
2016 Estimated Employment:	393
2026 Projected Employment:	408
Growth Rate, 2016-2026:	3.8%
Annual Openings:	42

Industry		2016 Share	2026 Share
721	Accommodation	71.8%	72.3%
	Self-employed Workers	21.6%	20.8%
6113	Colleges and Universities	4.3%	4.4%
5613	Employment Services	n	n
623	Nursing and Residential Care Facilities	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's | < 5 yrs | none

2017 Average Wage:	\$55.58
2016 Estimated Employment:	1,550
2026 Projected Employment:	1,840
Growth Rate, 2016-2026:	18.7%
Annual Openings:	158

Industry		2016 Share	2026 Share
622	Hospitals	35.7%	31.9%
621	Ambulatory Health Care Services	31.8%	37.7%
623	Nursing and Residential Care Facilities	13.0%	12.1%
551	Management of Companies and Enterprises	4.0%	3.7%
6113	Colleges and Universities	3.2%	2.8%
	Local Government, Excluding Education	3.0%	2.6%

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's | 5+ yrs | none

2017 Average Wage:	\$70.50
2016 Estimated Employment:	132
2026 Projected Employment:	147
Growth Rate, 2016-2026:	11.4%
Annual Openings:	13

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	31.1%	28.6%
5417 Scientific Research and Development Services	28.8%	29.9%
334 Computer and Electronic Product Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n
5413 Architectural and Engineering Services	n	n
813 Membership Organizations	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

2017 Average Wage:	\$35.27
2016 Estimated Employment:	163
2026 Projected Employment:	132
Growth Rate, 2016-2026:	-19.0%
Annual Openings:	7

Industry	2016 Share	2026 Share
4911 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

2017 Average Wage:	\$41.03
2016 Estimated Employment:	1,003
2026 Projected Employment:	1,106
Growth Rate, 2016-2026:	10.3%
Annual Openings:	89

Industry	2016 Share	2026 Share
531 Real Estate	44.0%	45.4%
Self-employed Workers	38.2%	36.8%
Local Government, Excluding Education	3.6%	3.4%
721 Accommodation	3.0%	2.9%
813 Membership Organizations	2.0%	2.0%
551 Management of Companies and Enterprises	1.9%	1.9%

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's | < 5 yrs | none

2017 Average Wage:	\$32.19
2016 Estimated Employment:	655
2026 Projected Employment:	774
Growth Rate, 2016-2026:	18.2%
Annual Openings:	73

Industry	2016 Share	2026 Share
624 Social Assistance	42.9%	43.9%
623 Nursing and Residential Care Facilities	14.4%	13.7%
621 Ambulatory Health Care Services	10.8%	11.5%
551 Management of Companies and Enterprises	6.9%	6.3%
Local Government, Excluding Education	6.4%	5.7%
813 Membership Organizations	6.1%	5.9%

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's | 5+ yrs | none

2017 Average Wage:	\$28.00
2016 Estimated Employment:	57
2026 Projected Employment:	60
Growth Rate, 2016-2026:	5.3%
Annual Openings:	4

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	38.6%	36.7%
Local Government, Excluding Education	36.8%	36.7%
5416 Management and Technical Consulting Services	n	n
551 Management of Companies and Enterprises	n	n
6113 Colleges and Universities	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's | < 5 yrs | none

2017 Average Wage:	\$60.51
2016 Estimated Employment:	4,614
2026 Projected Employment:	4,967
Growth Rate, 2016-2026:	7.7%
Annual Openings:	366

Industry	2016 Share	2026 Share
Self-employed Workers	53.1%	53.2%
551 Management of Companies and Enterprises	4.8%	4.8%
622 Hospitals	4.1%	4.0%
334 Computer and Electronic Product Manufacturing	3.9%	3.3%
511 Publishing Industries (except Internet)	2.9%	2.6%
5415 Computer Systems Design and Related Services	2.6%	3.0%

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's | < 5 yrs | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
512 Motion Picture and Sound Recording Industries	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's | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
311 Food Manufacturing	n	n
424 Merchant Wholesalers, Nondurable Goods	n	n
445 Food and Beverage Stores	n	n
5416 Management and Technical Consulting Services	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's | none | Moderate OJT

2017 Average Wage:	\$26.99
2016 Estimated Employment:	536
2026 Projected Employment:	541
Growth Rate, 2016-2026:	0.9%
Annual Openings:	60

Industry		2016 Share	2026 Share
423	Merchant Wholesalers, Durable Goods	21.8%	22.4%
424	Merchant Wholesalers, Nondurable Goods	16.0%	15.7%
	Self-employed Workers	10.1%	10.2%
454	Nonstore Retailers	9.0%	10.4%
452	General Merchandise Stores	8.4%	7.8%
444	Building Material and Garden Supply Stores	7.5%	7.0%

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's | none | Moderate OJT

2017 Average Wage:	\$31.21
2016 Estimated Employment:	1,487
2026 Projected Employment:	1,383
Growth Rate, 2016-2026:	-7.0%
Annual Openings:	112

Industry		2016 Share	2026 Share
334	Computer and Electronic Product Manufacturing	20.6%	18.2%
333	Machinery Manufacturing	9.5%	9.6%
332	Fabricated Metal Product Manufacturing	7.3%	7.1%
551	Management of Companies and Enterprises	5.9%	6.2%
622	Hospitals	4.3%	4.4%
	Federal Government, Excluding Post Office	4.0%	3.9%

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

2017 Average Wage:	\$32.50
2016 Estimated Employment:	1,619
2026 Projected Employment:	1,588
Growth Rate, 2016-2026:	-1.9%
Annual Openings:	126

Industry		2016 Share	2026 Share
524	Insurance Carriers and Related Activities	86.4%	86.5%
	Federal Government, Excluding Post Office	6.4%	5.9%
5611	Office Administrative Services	2.1%	2.5%
	Self-employed Workers	1.4%	1.6%
	Local Government, Excluding Education	0.6%	0.6%
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

2017 Average Wage:	\$33.42
2016 Estimated Employment:	58
2026 Projected Employment:	60
Growth Rate, 2016-2026:	3.5%
Annual Openings:	5

Industry		2016 Share	2026 Share
524	Insurance Carriers and Related Activities	98.3%	98.3%
	Self-employed Workers	1.7%	1.7%

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's | none | Moderate OJT

2017 Average Wage:	\$32.80
2016 Estimated Employment:	1,234
2026 Projected Employment:	1,325
Growth Rate, 2016-2026:	7.4%
Annual Openings:	109

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	31.9%	29.9%
524 Insurance Carriers and Related Activities	14.1%	14.4%
State Government, excl. Education and Hospitals	11.1%	10.5%
5415 Computer Systems Design and Related Services	6.8%	7.8%
Local Government, Excluding Education	6.5%	6.3%
5416 Management and Technical Consulting Services	5.5%	6.6%

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's | none | Moderate OJT

2017 Average Wage:	\$34.78
2016 Estimated Employment:	812
2026 Projected Employment:	888
Growth Rate, 2016-2026:	9.4%
Annual Openings:	90

Industry	2016 Share	2026 Share
238 Specialty Trade Contractors	43.0%	42.8%
236 Construction of Buildings	18.8%	19.6%
332 Fabricated Metal Product Manufacturing	8.7%	8.1%
423 Merchant Wholesalers, Durable Goods	3.9%	4.1%
425 Wholesale Electronic Markets and Agents/Brokers	3.8%	3.7%
237 Heavy and Civil Engineering Construction	3.0%	3.2%

13-1071 Human Resources Specialists



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

Training Category: Bachelor's | none | none

2017 Average Wage:	\$29.14
2016 Estimated Employment:	2,364
2026 Projected Employment:	2,486
Growth Rate, 2016-2026:	5.2%
Annual Openings:	241

Industry	2016 Share	2026 Share
5613 Employment Services	26.1%	25.6%
State Government, excl. Education and Hospitals	6.2%	5.8%
551 Management of Companies and Enterprises	5.6%	5.8%
6111 Elementary and Secondary Schools	4.2%	3.9%
5415 Computer Systems Design and Related Services	3.5%	4.0%
622 Hospitals	3.5%	3.5%

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's | < 5 yrs | none

2017 Average Wage:	\$38.19
2016 Estimated Employment:	229
2026 Projected Employment:	212
Growth Rate, 2016-2026:	-7.4%
Annual Openings:	18

Industry	2016 Share	2026 Share
813 Membership Organizations	93.5%	92.5%
Self-employed Workers	0.9%	0.9%
425 Wholesale Electronic Markets and Agents/Brokers	n	n
492 Couriers and Messengers	n	n
551 Management of Companies and Enterprises	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's | none | none

2017 Average Wage:	\$35.31
2016 Estimated Employment:	464
2026 Projected Employment:	499
Growth Rate, 2016-2026:	7.5%
Annual Openings:	50

Industry	2016 Share	2026 Share
334 Computer and Electronic Product Manufacturing	26.5%	22.7%
5416 Management and Technical Consulting Services	16.6%	19.6%
Federal Government, Excluding Post Office	5.0%	4.6%
517 Telecommunications	n	n
523 Financial Investment and Related Activities	n	n
551 Management of Companies and Enterprises	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's | < 5 yrs | none

2017 Average Wage:	\$48.66
2016 Estimated Employment:	2,267
2026 Projected Employment:	2,614
Growth Rate, 2016-2026:	15.3%
Annual Openings:	239

Industry	2016 Share	2026 Share
5416 Management and Technical Consulting Services	23.8%	26.3%
Self-employed Workers	15.4%	16.1%
524 Insurance Carriers and Related Activities	13.7%	12.6%
5415 Computer Systems Design and Related Services	7.6%	8.1%
State Government, excl. Education and Hospitals	5.2%	4.6%
425 Wholesale Electronic Markets and Agents/Brokers	4.0%	3.7%

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's | none | none

2017 Average Wage:	\$22.93
2016 Estimated Employment:	454
2026 Projected Employment:	487
Growth Rate, 2016-2026:	7.3%
Annual Openings:	56

Industry	2016 Share	2026 Share
813 Membership Organizations	16.7%	16.8%
6113 Colleges and Universities	13.4%	13.4%
Self-employed Workers	8.2%	8.8%
713 Amusement, Gambling, and Recreation	8.2%	8.4%
721 Accommodation	7.9%	7.6%
531 Real Estate	6.4%	6.2%

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's | none | none

2017 Average Wage:	\$26.54
2016 Estimated Employment:	605
2026 Projected Employment:	695
Growth Rate, 2016-2026:	14.9%
Annual Openings:	72

Industry	2016 Share	2026 Share
813 Membership Organizations	36.7%	37.6%
6113 Colleges and Universities	13.7%	12.5%
624 Social Assistance	11.1%	11.5%
6111 Elementary and Secondary Schools	9.9%	9.2%
711 Performing Arts and Spectator Sports	5.8%	5.3%
621 Ambulatory Health Care Services	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's | < 5 yrs | none

2017 Average Wage:	\$31.00
2016 Estimated Employment:	250
2026 Projected Employment:	262
Growth Rate, 2016-2026:	4.8%
Annual Openings:	21

Industry	2016 Share	2026 Share
524 Insurance Carriers and Related Activities	23.2%	26.3%
622 Hospitals	14.8%	14.1%
334 Computer and Electronic Product Manufacturing	9.2%	7.6%
6113 Colleges and Universities	7.6%	7.3%
5412 Accounting and Bookkeeping Services	n	n
551 Management of Companies and Enterprises	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's | < 5 yrs | none

2017 Average Wage:	\$33.47
2016 Estimated Employment:	1,073
2026 Projected Employment:	1,190
Growth Rate, 2016-2026:	10.9%
Annual Openings:	120

Industry	2016 Share	2026 Share
524 Insurance Carriers and Related Activities	12.6%	12.3%
622 Hospitals	9.4%	9.0%
5415 Computer Systems Design and Related Services	5.7%	6.9%
425 Wholesale Electronic Markets and Agents/Brokers	5.0%	4.8%
State Government, excl. Education and Hospitals	4.2%	3.9%
551 Management of Companies and Enterprises	4.0%	4.0%

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's | none | none

2017 Average Wage:	\$34.82
2016 Estimated Employment:	1,991
2026 Projected Employment:	2,458
Growth Rate, 2016-2026:	23.5%
Annual Openings:	259

Industry	2016 Share	2026 Share
5415 Computer Systems Design and Related Services	7.2%	7.9%
5419 Other Professional, Scientific, and Technical Services	6.9%	8.4%
551 Management of Companies and Enterprises	6.3%	6.2%
425 Wholesale Electronic Markets and Agents/Brokers	4.6%	4.3%
5611 Office Administrative Services	4.4%	4.9%
334 Computer and Electronic Product Manufacturing	n	n

13-1199 Business Operations Specialists, All Other



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

Training Category: Bachelor's | none | none

2017 Average Wage:	\$33.74
2016 Estimated Employment:	3,713
2026 Projected Employment:	4,016
Growth Rate, 2016-2026:	8.2%
Annual Openings:	374

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	19.6%	18.4%
Federal Government, Excluding Post Office	8.7%	8.0%
813 Membership Organizations	8.1%	8.3%
524 Insurance Carriers and Related Activities	5.6%	5.9%
511 Publishing Industries (except Internet)	3.2%	3.1%
5611 Office Administrative Services	2.8%	3.3%

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's | none | none

2017 Average Wage:	\$35.33
2016 Estimated Employment:	5,199
2026 Projected Employment:	5,705
Growth Rate, 2016-2026:	9.7%
Annual Openings:	526

Industry	2016 Share	2026 Share
5412 Accounting and Bookkeeping Services	17.2%	17.6%
524 Insurance Carriers and Related Activities	6.2%	6.2%
Self-employed Workers	5.8%	5.7%
551 Management of Companies and Enterprises	4.8%	4.8%
5611 Office Administrative Services	4.7%	5.4%
523 Financial Investment and Related Activities	n	n

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's | none | Long OJT

2017 Average Wage:	\$31.13
2016 Estimated Employment:	278
2026 Projected Employment:	308
Growth Rate, 2016-2026:	10.8%
Annual Openings:	21

Industry	2016 Share	2026 Share
Local Government, Excluding Education	26.6%	25.3%
531 Real Estate	25.5%	28.9%
Self-employed Workers	20.1%	19.5%
State Government, excl. Education and Hospitals	13.3%	12.0%
813 Membership Organizations	4.7%	4.2%
5416 Management and Technical Consulting Services	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's | none | none

2017 Average Wage:	\$33.97
2016 Estimated Employment:	87
2026 Projected Employment:	92
Growth Rate, 2016-2026:	5.8%
Annual Openings:	6

Industry	2016 Share	2026 Share
6113 Colleges and Universities	27.6%	27.2%
Federal Government, Excluding Post Office	14.9%	14.1%
Local Government, Excluding Education	5.8%	6.5%
5611 Office Administrative Services	n	n
622 Hospitals	n	n
812 Personal and Laundry Services	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's | none | none

2017 Average Wage:	\$37.91
2016 Estimated Employment:	154
2026 Projected Employment:	166
Growth Rate, 2016-2026:	7.8%
Annual Openings:	14

Industry	2016 Share	2026 Share
522 Credit Intermediation and Related Activities	40.9%	40.4%
551 Management of Companies and Enterprises	28.6%	28.9%
334 Computer and Electronic Product Manufacturing	n	n
454 Nonstore Retailers	n	n
518 Data Processing, Hosting, and Related Services	n	n
523 Financial Investment and Related Activities	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's | none | none

2017 Average Wage:	\$38.55
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
334 Computer and Electronic Product Manufacturing	n	n
522 Credit Intermediation and Related Activities	n	n
523 Financial Investment and Related Activities	n	n
524 Insurance Carriers and Related Activities	n	n
551 Management of Companies and Enterprises	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's | none | Long OJT

2017 Average Wage:	\$67.66
2016 Estimated Employment:	901
2026 Projected Employment:	1,044
Growth Rate, 2016-2026:	15.9%
Annual Openings:	86

Industry	2016 Share	2026 Share
523 Financial Investment and Related Activities	61.5%	63.3%
Self-employed Workers	21.6%	20.3%
522 Credit Intermediation and Related Activities	6.7%	6.4%
524 Insurance Carriers and Related Activities	2.1%	1.9%
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's | none | Moderate OJT

2017 Average Wage:	\$39.80
2016 Estimated Employment:	370
2026 Projected Employment:	342
Growth Rate, 2016-2026:	-7.6%
Annual Openings:	25

Industry	2016 Share	2026 Share
522 Credit Intermediation and Related Activities	n	n
524 Insurance Carriers and Related Activities	n	n

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's | none | Long OJT

2017 Average Wage:	\$44.07
2016 Estimated Employment:	180
2026 Projected Employment:	188
Growth Rate, 2016-2026:	4.4%
Annual Openings:	14

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	45.6%	44.2%
524 Insurance Carriers and Related Activities	16.7%	16.5%
Federal Government, Excluding Post Office	16.1%	15.4%
522 Credit Intermediation and Related Activities	n	n
523 Financial Investment and Related Activities	n	n
551 Management of Companies and Enterprises	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's | none | Moderate OJT

2017 Average Wage:	\$25.32
2016 Estimated Employment:	259
2026 Projected Employment:	288
Growth Rate, 2016-2026:	11.2%
Annual Openings:	25

Industry	2016 Share	2026 Share
6113 Colleges and Universities	68.0%	64.9%
5419 Other Professional, Scientific, and Technical Services	14.7%	18.4%
622 Hospitals	7.0%	6.6%
Self-employed Workers	1.9%	1.7%
441 Motor Vehicle and Parts Dealers	n	n
6112 Junior Colleges	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's | none | Moderate OJT

2017 Average Wage:	\$42.89
2016 Estimated Employment:	1,108
2026 Projected Employment:	1,217
Growth Rate, 2016-2026:	9.8%
Annual Openings:	103

Industry	2016 Share	2026 Share
522 Credit Intermediation and Related Activities	75.5%	74.8%
441 Motor Vehicle and Parts Dealers	11.7%	12.4%
551 Management of Companies and Enterprises	5.5%	5.5%
Self-employed Workers	Loan Officers	2.3%
Federal Government, Excluding Post Office	1.7%	1.6%
5611 Office Administrative Services	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's | none | Moderate OJT

2017 Average Wage:	\$28.32
2016 Estimated Employment:	325
2026 Projected Employment:	331
Growth Rate, 2016-2026:	1.9%
Annual Openings:	24

Industry	2016 Share	2026 Share
Local Government, Excluding Education	62.8%	65.0%
Federal Government, Excluding Post Office	18.8%	16.6%
State Government, excl. Education and Hospitals	18.5%	18.4%

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

2017 Average Wage:	\$20.41
2016 Estimated Employment:	334
2026 Projected Employment:	373
Growth Rate, 2016-2026:	11.7%
Annual Openings:	41

Industry	2016 Share	2026 Share
5412 Accounting and Bookkeeping Services	76.4%	76.7%
Self-employed Workers	21.0%	20.1%
523 Financial Investment and Related Activities	2.7%	3.2%

13-2099 Financial Specialists, All Other



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

Training Category: Bachelor's | none | Moderate OJT

2017 Average Wage:	\$34.91
2016 Estimated Employment:	554
2026 Projected Employment:	616
Growth Rate, 2016-2026:	11.2%
Annual Openings:	54

Industry	2016 Share	2026 Share
523 Financial Investment and Related Activities	16.1%	16.7%
524 Insurance Carriers and Related Activities	15.7%	15.1%
551 Management of Companies and Enterprises	6.3%	6.2%
622 Hospitals	6.3%	6.0%
522 Credit Intermediation and Related Activities	4.9%	4.7%
Local Government, Excluding Education	4.9%	4.6%

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: Master's | none | none

2017 Average Wage:	\$62.99
2016 Estimated Employment:	172
2026 Projected Employment:	185
Growth Rate, 2016-2026:	7.6%
Annual Openings:	12

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	1.7%	1.6%
332 Fabricated Metal Product Manufacturing	n	n
334 Computer and Electronic Product Manufacturing	n	n
511 Publishing Industries (except Internet)	n	n
5415 Computer Systems Design and Related Services	n	n
5417 Scientific Research and Development Services	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's | none | none

2017 Average Wage:	\$43.56
2016 Estimated Employment:	2,374
2026 Projected Employment:	2,488
Growth Rate, 2016-2026:	4.8%
Annual Openings:	163

Industry	2016 Share	2026 Share
524 Insurance Carriers and Related Activities	34.8%	34.0%
5415 Computer Systems Design and Related Services	7.3%	8.5%
511 Publishing Industries (except Internet)	5.2%	5.3%
517 Telecommunications	5.1%	4.3%
334 Computer and Electronic Product Manufacturing	5.1%	4.2%
5416 Management and Technical Consulting Services	4.4%	5.1%

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's | < 5 yrs | none

2017 Average Wage:	\$48.27
2016 Estimated Employment:	367
2026 Projected Employment:	469
Growth Rate, 2016-2026:	27.8%
Annual Openings:	37

Industry	2016 Share	2026 Share
524 Insurance Carriers and Related Activities	37.1%	36.0%
518 Data Processing, Hosting, and Related Services	15.8%	19.0%
5415 Computer Systems Design and Related Services	11.7%	14.5%
334 Computer and Electronic Product Manufacturing	n	n
522 Credit Intermediation and Related Activities	n	n
523 Financial Investment and Related Activities	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's | none | none

2017 Average Wage:	\$36.33
2016 Estimated Employment:	1,559
2026 Projected Employment:	1,475
Growth Rate, 2016-2026:	-5.4%
Annual Openings:	86

Industry		2016 Share	2026 Share
5415	Computer Systems Design and Related Services	48.6%	50.5%
511	Publishing Industries (except Internet)	15.2%	14.7%
	Self-employed Workers	4.7%	5.8%
524	Insurance Carriers and Related Activities	3.9%	3.7%
334	Computer and Electronic Product Manufacturing	2.6%	2.0%
423	Merchant Wholesalers, Durable Goods	2.5%	2.4%

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's | none | none

2017 Average Wage:	\$50.49
2016 Estimated Employment:	5,045
2026 Projected Employment:	6,499
Growth Rate, 2016-2026:	28.8%
Annual Openings:	507

Industry		2016 Share	2026 Share
5415	Computer Systems Design and Related Services	32.8%	37.4%
511	Publishing Industries (except Internet)	12.4%	12.2%
524	Insurance Carriers and Related Activities	11.5%	10.5%
334	Computer and Electronic Product Manufacturing	8.5%	6.6%
518	Data Processing, Hosting, and Related Services	5.0%	5.0%
425	Wholesale Electronic Markets and Agents/Brokers	3.1%	2.8%

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's | none | none

2017 Average Wage:	\$57.10
2016 Estimated Employment:	1,443
2026 Projected Employment:	1,498
Growth Rate, 2016-2026:	3.8%
Annual Openings:	98

Industry		2016 Share	2026 Share
334	Computer and Electronic Product Manufacturing	39.0%	33.6%
5415	Computer Systems Design and Related Services	14.0%	16.6%
6113	Colleges and Universities	11.2%	11.2%
524	Insurance Carriers and Related Activities	5.7%	5.7%
5417	Scientific Research and Development Services	5.7%	6.3%
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

2017 Average Wage:	\$31.45
2016 Estimated Employment:	703
2026 Projected Employment:	808
Growth Rate, 2016-2026:	14.9%
Annual Openings:	62

Industry		2016 Share	2026 Share
5415	Computer Systems Design and Related Services	24.9%	26.6%
	Self-employed Workers	14.2%	14.7%
5418	Advertising, Public Relations, and Related Services	7.4%	7.6%
6113	Colleges and Universities	6.4%	5.8%
454	Nonstore Retailers	5.8%	6.7%
	State Government, excl. Education and Hospitals	4.7%	4.2%

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's | none | none

2017 Average Wage:	\$42.12
2016 Estimated Employment:	446
2026 Projected Employment:	498
Growth Rate, 2016-2026:	11.7%
Annual Openings:	35

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	14.6%	13.3%
524 Insurance Carriers and Related Activities	12.3%	12.3%
518 Data Processing, Hosting, and Related Services	11.4%	12.1%
6113 Colleges and Universities	9.4%	8.8%
5416 Management and Technical Consulting Services	8.7%	9.8%
5415 Computer Systems Design and Related Services	7.2%	7.8%

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's | none | none

2017 Average Wage:	\$38.39
2016 Estimated Employment:	1,952
2026 Projected Employment:	2,009
Growth Rate, 2016-2026:	2.9%
Annual Openings:	127

Industry	2016 Share	2026 Share
524 Insurance Carriers and Related Activities	20.7%	20.9%
517 Telecommunications	8.6%	7.2%
5415 Computer Systems Design and Related Services	6.9%	8.3%
6111 Elementary and Secondary Schools	5.9%	5.6%
334 Computer and Electronic Product Manufacturing	5.1%	4.2%
6113 Colleges and Universities	5.1%	4.9%

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's | 5+ yrs | none

2017 Average Wage:	\$53.74
2016 Estimated Employment:	375
2026 Projected Employment:	389
Growth Rate, 2016-2026:	3.7%
Annual Openings:	25

Industry	2016 Share	2026 Share
524 Insurance Carriers and Related Activities	24.0%	23.1%
5415 Computer Systems Design and Related Services	18.1%	21.3%
517 Telecommunications	7.7%	6.4%
334 Computer and Electronic Product Manufacturing	7.5%	5.9%
811 Repair and Maintenance	6.9%	6.4%
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

2017 Average Wage:	\$27.25
2016 Estimated Employment:	2,516
2026 Projected Employment:	2,768
Growth Rate, 2016-2026:	10.0%
Annual Openings:	215

Industry	2016 Share	2026 Share
5415 Computer Systems Design and Related Services	13.5%	15.0%
511 Publishing Industries (except Internet)	11.1%	11.4%
6111 Elementary and Secondary Schools	8.1%	7.5%
524 Insurance Carriers and Related Activities	7.2%	7.0%
6113 Colleges and Universities	6.8%	6.4%
622 Hospitals	5.5%	5.2%

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

2017 Average Wage:	\$31.25
2016 Estimated Employment:	422
2026 Projected Employment:	453
Growth Rate, 2016-2026:	7.4%
Annual Openings:	34

Industry	2016 Share	2026 Share
518 Data Processing, Hosting, and Related Services	22.0%	24.1%
517 Telecommunications	18.5%	15.7%
524 Insurance Carriers and Related Activities	13.7%	13.9%
5415 Computer Systems Design and Related Services	5.5%	6.2%
622 Hospitals	4.7%	4.6%
5613 Employment Services	n	n

15-1199 Computer Occupations, All Other



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

Training Category: Bachelor's | none | none

2017 Average Wage:	\$42.31
2016 Estimated Employment:	646
2026 Projected Employment:	712
Growth Rate, 2016-2026:	10.2%
Annual Openings:	52

Industry	2016 Share	2026 Share
5415 Computer Systems Design and Related Services	14.7%	16.3%
Federal Government, Excluding Post Office	12.5%	11.5%
511 Publishing Industries (except Internet)	12.2%	12.1%
622 Hospitals	9.3%	8.9%
551 Management of Companies and Enterprises	8.4%	8.3%
524 Insurance Carriers and Related Activities	7.4%	7.2%

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's | none | Long OJT

2017 Average Wage:	\$52.22
2016 Estimated Employment:	103
2026 Projected Employment:	123
Growth Rate, 2016-2026:	19.4%
Annual Openings:	8

Industry	2016 Share	2026 Share
524 Insurance Carriers and Related Activities	92.2%	90.2%
Self-employed Workers	n	n
5416 Management and Technical Consulting Services	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: Master's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
5413 Architectural and Engineering 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's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
425 Wholesale Electronic Markets and Agents/Brokers	n	n
523 Financial Investment and Related Activities	n	n
524 Insurance Carriers and Related Activities	n	n
551 Management of Companies and Enterprises	n	n
6113 Colleges and Universities	n	n
622 Hospitals	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: Master's | none | none

2017 Average Wage:	\$34.97
2016 Estimated Employment:	131
2026 Projected Employment:	176
Growth Rate, 2016-2026:	34.4%
Annual Openings:	15

Industry	2016 Share	2026 Share
5417 Scientific Research and Development Services	36.6%	35.8%
524 Insurance Carriers and Related Activities	32.8%	34.7%
6113 Colleges and Universities	13.7%	12.5%
State Government, excl. Education and Hospitals	3.8%	3.4%
Self-employed Workers	2.3%	2.3%
5416 Management and Technical Consulting 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's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
5417 Scientific Research and Development Services	n	n
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's | none | Intern/Residency

2017 Average Wage:	\$40.13
2016 Estimated Employment:	221
2026 Projected Employment:	229
Growth Rate, 2016-2026:	3.6%
Annual Openings:	17

Industry	2016 Share	2026 Share
5413 Architectural and Engineering Services	67.9%	66.8%
Self-employed Workers	18.1%	18.8%
236 Construction of Buildings	n	n
321 Wood Product Manufacturing	n	n
5613 Employment Services	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's | none | Intern/Residency

2017 Average Wage:	n/a
2016 Estimated Employment:	83
2026 Projected Employment:	88
Growth Rate, 2016-2026:	6.0%
Annual Openings:	6

Industry		2016 Share	2026 Share
5413	Architectural and Engineering Services	68.7%	67.1%
	Self-employed Workers	16.9%	18.2%
5617	Services to Buildings and Dwellings	13.3%	13.6%
	Federal Government, Excluding Post Office	1.2%	1.1%

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's | none | none

2017 Average Wage:	\$22.94
2016 Estimated Employment:	124
2026 Projected Employment:	137
Growth Rate, 2016-2026:	10.5%
Annual Openings:	10

Industry		2016 Share	2026 Share
5413	Architectural and Engineering Services	63.7%	64.2%
	State Government, excl. Education and Hospitals	9.7%	8.8%
	Local Government, Excluding Education	6.5%	7.3%
238	Specialty Trade Contractors	n	n
813	Membership Organizations	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's | none | Intern/Residency

2017 Average Wage:	\$27.97
2016 Estimated Employment:	250
2026 Projected Employment:	279
Growth Rate, 2016-2026:	11.6%
Annual Openings:	22

Industry		2016 Share	2026 Share
5413	Architectural and Engineering Services	88.4%	88.2%
	Self-employed Workers	2.0%	2.2%
	State Government, excl. Education and Hospitals	1.6%	1.4%
	Local Government, Excluding Education	2.0%	2.2%
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's | none | none

2017 Average Wage:	\$48.39
2016 Estimated Employment:	64
2026 Projected Employment:	72
Growth Rate, 2016-2026:	12.5%
Annual Openings:	5

Industry		2016 Share	2026 Share
332	Fabricated Metal Product Manufacturing	n	n
334	Computer and Electronic Product Manufacturing	n	n
336	Transportation Equipment Manufacturing	n	n
423	Merchant Wholesalers, Durable Goods	n	n
5416	Management and Technical Consulting Services	n	n
5417	Scientific Research and Development Services	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's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	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's | none | none

2017 Average Wage:	\$43.42
2016 Estimated Employment:	90
2026 Projected Employment:	95
Growth Rate, 2016-2026:	5.6%
Annual Openings:	6

Industry	2016 Share	2026 Share
339 Miscellaneous Manufacturing	n	n
425 Wholesale Electronic Markets and Agents/Brokers	n	n
551 Management of Companies and Enterprises	n	n
5413 Architectural and Engineering Services	n	n
5417 Scientific Research and Development Services	n	n
6113 Colleges and Universities	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: Adsorption and Adsorption Engineer; Explosives Engineer*

Training Category: Bachelor's | none | none

2017 Average Wage:	\$46.46
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
325 Chemical Manufacturing	n	n
326 Plastics and Rubber Products Manufacturing	n	n
334 Computer and Electronic Product Manufacturing	n	n
425 Wholesale Electronic Markets and Agents/Brokers	n	n
5413 Architectural and Engineering Services	n	n
5417 Scientific Research and Development Services	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's | none | none

2017 Average Wage:	\$38.36
2016 Estimated Employment:	1,441
2026 Projected Employment:	1,582
Growth Rate, 2016-2026:	9.8%
Annual Openings:	121

Industry	2016 Share	2026 Share
5413 Architectural and Engineering Services	64.7%	66.1%
State Government, excl. Education and Hospitals	18.8%	17.5%
Self-employed Workers	2.9%	2.8%
5416 Management and Technical Consulting Services	2.6%	3.0%
Local Government, Excluding Education	2.4%	2.3%
Federal Government, Excluding Post Office	1.9%	1.8%

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's | none | none

2017 Average Wage:	\$64.97
2016 Estimated Employment:	272
2026 Projected Employment:	301
Growth Rate, 2016-2026:	10.7%
Annual Openings:	21

Industry	2016 Share	2026 Share
5415 Computer Systems Design and Related Services	40.8%	45.5%
334 Computer and Electronic Product Manufacturing	25.4%	20.6%
5417 Scientific Research and Development Services	12.1%	12.6%
5613 Employment Services	12.1%	12.0%
6113 Colleges and Universities	5.5%	5.3%
5413 Architectural and Engineering 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's | none | none

2017 Average Wage:	\$49.87
2016 Estimated Employment:	1,730
2026 Projected Employment:	1,805
Growth Rate, 2016-2026:	4.3%
Annual Openings:	119

Industry	2016 Share	2026 Share
334 Computer and Electronic Product Manufacturing	42.8%	39.5%
5413 Architectural and Engineering Services	12.8%	15.0%
551 Management of Companies and Enterprises	8.9%	9.4%
333 Machinery Manufacturing	6.0%	5.8%
335 Electrical Equipment and Appliance Manufacturing	5.8%	5.6%
425 Wholesale Electronic Markets and Agents/Brokers	5.7%	5.8%

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's | none | none

2017 Average Wage:	\$52.17
2016 Estimated Employment:	504
2026 Projected Employment:	514
Growth Rate, 2016-2026:	2.0%
Annual Openings:	33

Industry	2016 Share	2026 Share
334 Computer and Electronic Product Manufacturing	53.4%	50.8%
423 Merchant Wholesalers, Durable Goods	19.3%	20.8%
517 Telecommunications	7.5%	7.6%
333 Machinery Manufacturing	5.2%	5.3%
5414 Specialized Design Services	n	n
5416 Management and Technical Consulting Services	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's | none | none

2017 Average Wage:	\$39.35
2016 Estimated Employment:	151
2026 Projected Employment:	162
Growth Rate, 2016-2026:	7.3%
Annual Openings:	11

Industry	2016 Share	2026 Share
5413 Architectural and Engineering Services	43.7%	43.2%
5416 Management and Technical Consulting Services	25.2%	28.4%
State Government, excl. Education and Hospitals	9.9%	9.3%
6113 Colleges and Universities	6.0%	5.6%
Local Government, Excluding Education	4.6%	4.3%
326 Plastics and Rubber Products Manufacturing	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's | none | none

2017 Average Wage:	\$49.43
2016 Estimated Employment:	71
2026 Projected Employment:	74
Growth Rate, 2016-2026:	4.2%
Annual Openings:	5

Industry		2016 Share	2026 Share
312	Beverage and Tobacco Product Manufacturing	n	n
333	Machinery Manufacturing	n	n
334	Computer and Electronic Product Manufacturing	n	n
524	Insurance Carriers and Related Activities	n	n
5416	Management and Technical Consulting Services	n	n
551	Management of Companies and Enterprises	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's | none | none

2017 Average Wage:	\$40.53
2016 Estimated Employment:	1,320
2026 Projected Employment:	1,439
Growth Rate, 2016-2026:	9.0%
Annual Openings:	99

Industry		2016 Share	2026 Share
334	Computer and Electronic Product Manufacturing	25.9%	24.3%
332	Fabricated Metal Product Manufacturing	12.7%	12.1%
333	Machinery Manufacturing	10.6%	12.2%
336	Transportation Equipment Manufacturing	6.2%	7.2%
339	Miscellaneous Manufacturing	5.4%	5.1%
326	Plastics and Rubber Products Manufacturing	5.3%	4.7%

17-2121 Marine Engineers and Naval Architects



Design, develop, and evaluate the operation of marine vessels, ship machinery, and related equipment, such as power supply and propulsion systems.

Training Category: Bachelor's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
336	Transportation Equipment Manufacturing	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's | none | none

2017 Average Wage:	\$44.17
2016 Estimated Employment:	72
2026 Projected Employment:	73
Growth Rate, 2016-2026:	1.4%
Annual Openings:	5

Industry		2016 Share	2026 Share
326	Plastics and Rubber Products Manufacturing	n	n
334	Computer and Electronic Product Manufacturing	n	n
335	Electrical Equipment and Appliance Manufacturing	n	n
336	Transportation Equipment Manufacturing	n	n
5417	Scientific Research and Development Services	n	n
551	Management of Companies and Enterprises	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's | none | none

2017 Average Wage:	\$42.74
2016 Estimated Employment:	1,687
2026 Projected Employment:	1,767
Growth Rate, 2016-2026:	4.7%
Annual Openings:	115

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	20.0%	19.2%
334 Computer and Electronic Product Manufacturing	19.1%	16.9%
333 Machinery Manufacturing	15.4%	16.4%
5413 Architectural and Engineering Services	9.4%	10.8%
5417 Scientific Research and Development Services	7.2%	8.0%
326 Plastics and Rubber Products Manufacturing	5.5%	4.9%

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's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 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's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
221 Utilities	n	n
5416 Management and Technical Consulting Services	n	n
Federal Government, Excluding Post Office	n	n

17-2199 Engineers, All Other 

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

Training Category: Bachelor's | none | none

2017 Average Wage:	\$44.15
2016 Estimated Employment:	702
2026 Projected Employment:	737
Growth Rate, 2016-2026:	5.0%
Annual Openings:	50

Industry	2016 Share	2026 Share
334 Computer and Electronic Product Manufacturing	14.1%	12.5%
5413 Architectural and Engineering Services	13.7%	14.3%
333 Machinery Manufacturing	12.7%	12.8%
339 Miscellaneous Manufacturing	6.4%	5.8%
551 Management of Companies and Enterprises	5.8%	6.1%
332 Fabricated Metal Product Manufacturing	4.6%	4.3%

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

2017 Average Wage:	\$25.70
2016 Estimated Employment:	538
2026 Projected Employment:	575
Growth Rate, 2016-2026:	6.9%
Annual Openings:	50

Industry	2016 Share	2026 Share
5413 Architectural and Engineering Services	63.2%	63.3%
321 Wood Product Manufacturing	7.1%	6.4%
425 Wholesale Electronic Markets and Agents/Brokers	6.5%	6.4%
238 Specialty Trade Contractors	4.5%	4.7%
236 Construction of Buildings	n	n
444 Building Material and Garden Supply Stores	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

2017 Average Wage:	\$33.29
2016 Estimated Employment:	299
2026 Projected Employment:	313
Growth Rate, 2016-2026:	4.7%
Annual Openings:	26

Industry	2016 Share	2026 Share
5413 Architectural and Engineering Services	38.1%	41.2%
334 Computer and Electronic Product Manufacturing	30.4%	26.5%
551 Management of Companies and Enterprises	8.7%	9.0%
335 Electrical Equipment and Appliance Manufacturing	5.7%	5.4%
238 Specialty Trade Contractors	4.4%	4.5%
333 Machinery Manufacturing	2.3%	2.2%

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

2017 Average Wage:	\$30.56
2016 Estimated Employment:	351
2026 Projected Employment:	369
Growth Rate, 2016-2026:	5.1%
Annual Openings:	32

Industry	2016 Share	2026 Share
5413 Architectural and Engineering Services	24.8%	26.3%
334 Computer and Electronic Product Manufacturing	15.1%	13.3%
332 Fabricated Metal Product Manufacturing	13.7%	13.0%
423 Merchant Wholesalers, Durable Goods	13.1%	14.4%
333 Machinery Manufacturing	6.3%	6.2%
339 Miscellaneous Manufacturing	5.1%	4.6%

17-3019 Drafters, All Other



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

Training Category: Associate | none | none

2017 Average Wage:	\$27.10
2016 Estimated Employment:	115
2026 Projected Employment:	126
Growth Rate, 2016-2026:	9.6%
Annual Openings:	11

Industry	2016 Share	2026 Share
5413 Architectural and Engineering Services	27.0%	27.0%
238 Specialty Trade Contractors	21.7%	23.0%
327 Nonmetallic Mineral Product Manufacturing	n	n
333 Machinery Manufacturing	n	n
444 Building Material and Garden Supply Stores	n	n
551 Management of Companies and Enterprises	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

2017 Average Wage:	\$23.98
2016 Estimated Employment:	169
2026 Projected Employment:	188
Growth Rate, 2016-2026:	11.2%
Annual Openings:	17

Industry	2016 Share	2026 Share
5413 Architectural and Engineering Services	85.2%	85.6%
Local Government, Excluding Education	13.0%	12.2%
Self-employed Workers	n	n
551 Management of Companies and Enterprises	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

2017 Average Wage:	\$27.90
2016 Estimated Employment:	1,092
2026 Projected Employment:	1,094
Growth Rate, 2016-2026:	0.2%
Annual Openings:	93

Industry	2016 Share	2026 Share
334 Computer and Electronic Product Manufacturing	51.2%	46.8%
5415 Computer Systems Design and Related Services	12.6%	15.4%
335 Electrical Equipment and Appliance Manufacturing	7.1%	6.9%
551 Management of Companies and Enterprises	5.3%	5.9%
423 Merchant Wholesalers, Durable Goods	4.3%	4.8%
5413 Architectural and Engineering Services	3.7%	4.1%

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

2017 Average Wage:	\$26.92
2016 Estimated Employment:	157
2026 Projected Employment:	163
Growth Rate, 2016-2026:	3.8%
Annual Openings:	14

Industry	2016 Share	2026 Share
5613 Employment Services	35.7%	38.0%
334 Computer and Electronic Product Manufacturing	31.9%	28.2%
327 Nonmetallic Mineral Product Manufacturing	n	n
333 Machinery Manufacturing	n	n
336 Transportation Equipment Manufacturing	n	n
551 Management of Companies and Enterprises	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
334 Computer and Electronic Product Manufacturing	n	n
5413 Architectural and Engineering Services	n	n
5416 Management and Technical Consulting Services	n	n
551 Management of Companies and Enterprises	n	n
Local Government, Excluding 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

2017 Average Wage:	\$27.40
2016 Estimated Employment:	423
2026 Projected Employment:	422
Growth Rate, 2016-2026:	-0.2%
Annual Openings:	36

Industry	2016 Share	2026 Share
333 Machinery Manufacturing	23.4%	24.4%
334 Computer and Electronic Product Manufacturing	22.7%	21.1%
332 Fabricated Metal Product Manufacturing	19.9%	20.1%
326 Plastics and Rubber Products Manufacturing	n	n
335 Electrical Equipment and Appliance Manufacturing	n	n
339 Miscellaneous Manufacturing	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

2017 Average Wage:	\$25.81
2016 Estimated Employment:	359
2026 Projected Employment:	368
Growth Rate, 2016-2026:	2.5%
Annual Openings:	32

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	22.3%	21.7%
333 Machinery Manufacturing	22.3%	23.1%
334 Computer and Electronic Product Manufacturing	15.0%	13.9%
5417 Scientific Research and Development Services	9.2%	10.3%
326 Plastics and Rubber Products Manufacturing	n	n
336 Transportation Equipment 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

2017 Average Wage:	\$25.37
2016 Estimated Employment:	415
2026 Projected Employment:	425
Growth Rate, 2016-2026:	2.4%
Annual Openings:	36

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	34.5%	34.4%
333 Machinery Manufacturing	12.3%	12.7%
334 Computer and Electronic Product Manufacturing	10.8%	9.9%
Federal Government, Excluding Post Office	6.8%	6.6%
336 Transportation Equipment Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n

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

2017 Average Wage:	\$21.69
2016 Estimated Employment:	301
2026 Projected Employment:	329
Growth Rate, 2016-2026:	9.3%
Annual Openings:	35

Industry	2016 Share	2026 Share
5413 Architectural and Engineering Services	73.8%	75.1%
State Government, excl. Education and Hospitals	12.3%	11.3%
Self-employed Workers	8.0%	7.9%
221 Utilities	n	n
813 Membership Organizations	n	n
Local Government, Excluding Education	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's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 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's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
454 Nonstore Retailers	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's | none | none

2017 Average Wage:	\$38.37
2016 Estimated Employment:	29
2026 Projected Employment:	32
Growth Rate, 2016-2026:	10.3%
Annual Openings:	3

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	31.0%	28.1%
State Government, excl. Education and Hospitals	3.5%	3.1%
Self-employed Workers	3.5%	6.3%
5417 Scientific Research and Development Services	n	n
5617 Services to Buildings and Dwellings	n	n
6113 Colleges and Universities	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

2017 Average Wage:	\$44.87
2016 Estimated Employment:	115
2026 Projected Employment:	134
Growth Rate, 2016-2026:	16.5%
Annual Openings:	12

Industry	2016 Share	2026 Share
5417 Scientific Research and Development Services	70.4%	70.2%
Self-employed Workers	2.6%	3.0%
325 Chemical Manufacturing	n	n
6113 Colleges and Universities	n	n
621 Ambulatory Health Care Services	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's | none | none

2017 Average Wage:	\$37.06
2016 Estimated Employment:	86
2026 Projected Employment:	90
Growth Rate, 2016-2026:	4.7%
Annual Openings:	8

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	48.8%	46.7%
Federal Government, Excluding Post Office	2.3%	2.2%
Self-employed Workers	2.3%	2.2%
339 Miscellaneous Manufacturing	n	n
5417 Scientific Research and Development Services	n	n
6113 Colleges and Universities	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's | none | none

2017 Average Wage:	\$28.92
2016 Estimated Employment:	134
2026 Projected Employment:	143
Growth Rate, 2016-2026:	6.7%
Annual Openings:	13

Industry	2016 Share	2026 Share
813 Membership Organizations	46.3%	49.7%
State Government, excl. Education and Hospitals	38.8%	36.4%
Federal Government, Excluding Post Office	10.5%	9.8%
Self-employed Workers	0.8%	0.7%
5417 Scientific Research and Development Services	n	n
712 Museums, Historical Sites, and Similar Institutions	n	n

19-1029 Biological Scientists, All Other



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

Training Category: Bachelor's | none | none

2017 Average Wage:	\$47.98
2016 Estimated Employment:	95
2026 Projected Employment:	102
Growth Rate, 2016-2026:	7.4%
Annual Openings:	9

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	37.9%	35.3%
Self-employed Workers	1.1%	1.0%
325 Chemical Manufacturing	n	n
425 Wholesale Electronic Markets and Agents/Brokers	n	n
5417 Scientific Research and Development Services	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's | none | none

2017 Average Wage:	\$36.77
2016 Estimated Employment:	53
2026 Projected Employment:	57
Growth Rate, 2016-2026:	7.6%
Annual Openings:	4

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	56.6%	52.6%
Local Government, Excluding Education	3.8%	5.3%
State Government, excl. Education and Hospitals	1.9%	1.8%
Self-employed Workers	1.9%	1.8%
5413 Architectural and Engineering Services	n	n
813 Membership Organizations	n	n

19-1032 Foresters



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

Training Category: Bachelor's | none | none

2017 Average Wage:	\$27.28
2016 Estimated Employment:	94
2026 Projected Employment:	103
Growth Rate, 2016-2026:	9.6%
Annual Openings:	9

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	16.0%	14.6%
State Government, excl. Education and Hospitals	19.2%	18.5%
Local Government, Excluding Education	2.1%	1.9%
113 Forestry and Logging	n	n
523 Financial Investment and Related Activities	n	n
813 Membership Organizations	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: Master's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
6113 Colleges and Universities	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

2017 Average Wage:	\$42.81
2016 Estimated Employment:	375
2026 Projected Employment:	411
Growth Rate, 2016-2026:	9.6%
Annual Openings:	36

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	n	n
621 Ambulatory Health Care Services	n	n
622 Hospitals	n	n
5417 Scientific Research and Development Services	n	n
5419 Other Professional, Scientific, and Technical Services	n	n
6113 Colleges and Universities	n	n

19-1099 Life Scientists, All Other



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

Training Category: Bachelor's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
339 Miscellaneous Manufacturing	n	n
5413 Architectural and Engineering Services	n	n
5417 Scientific Research and Development Services	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 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

2017 Average Wage:	\$65.71
2016 Estimated Employment:	76
2026 Projected Employment:	81
Growth Rate, 2016-2026:	6.6%
Annual Openings:	6

Industry	2016 Share	2026 Share
5413 Architectural and Engineering Services	29.0%	28.4%
State Government, excl. Education and Hospitals	13.2%	12.4%
334 Computer and Electronic Product Manufacturing	n	n
5416 Management and Technical Consulting Services	n	n
6113 Colleges and Universities	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's | none | none

2017 Average Wage:	\$38.66
2016 Estimated Employment:	74
2026 Projected Employment:	87
Growth Rate, 2016-2026:	17.6%
Annual Openings:	7

Industry	2016 Share	2026 Share
6113 Colleges and Universities	35.1%	29.9%
5419 Other Professional, Scientific, and Technical Services	28.4%	33.3%
Federal Government, Excluding Post Office	5.4%	4.6%
5416 Management and Technical Consulting Services	n	n
5417 Scientific Research and Development 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's | none | none

2017 Average Wage:	\$31.45
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
221 Utilities	n	n
325 Chemical Manufacturing	n	n
334 Computer and Electronic Product Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n
5413 Architectural and Engineering Services	n	n
811 Repair and Maintenance	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's | none | none

2017 Average Wage:	\$40.54
2016 Estimated Employment:	71
2026 Projected Employment:	74
Growth Rate, 2016-2026:	4.2%
Annual Openings:	6

Industry	2016 Share	2026 Share
323 Printing and Related Support Activities	n	n
332 Fabricated Metal Product Manufacturing	n	n
334 Computer and Electronic Product Manufacturing	n	n
335 Electrical Equipment and Appliance Manufacturing	n	n
425 Wholesale Electronic Markets and Agents/Brokers	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's | none | none

2017 Average Wage:	\$36.81
2016 Estimated Employment:	442
2026 Projected Employment:	492
Growth Rate, 2016-2026:	11.3%
Annual Openings:	47

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	41.6%	38.0%
5416 Management and Technical Consulting Services	30.1%	34.4%
5413 Architectural and Engineering Services	11.3%	11.2%
5417 Scientific Research and Development Services	n	n
6113 Colleges and Universities	n	n
Local Government, Excluding Education	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's | none | none

2017 Average Wage:	\$41.10
2016 Estimated Employment:	95
2026 Projected Employment:	104
Growth Rate, 2016-2026:	9.5%
Annual Openings:	10

Industry	2016 Share	2026 Share
5413 Architectural and Engineering Services	50.5%	51.0%
5416 Management and Technical Consulting Services	13.7%	15.4%
Federal Government, Excluding Post Office	10.5%	9.6%
State Government, excl. Education and Hospitals	5.3%	4.8%
5417 Scientific Research and Development Services	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's | none | none

2017 Average Wage:	\$42.21
2016 Estimated Employment:	63
2026 Projected Employment:	68
Growth Rate, 2016-2026:	7.9%
Annual Openings:	5

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	39.7%	36.8%
Federal Government, Excluding Post Office	20.6%	19.1%
Self-employed Workers	1.6%	1.5%
5413 Architectural and Engineering Services	n	n
5416 Management and Technical Consulting Services	n	n

19-2099 Physical Scientists, All Other



All physical scientists not listed separately.

Training Category: Bachelor's | none | none

2017 Average Wage:	\$43.53
2016 Estimated Employment:	80
2026 Projected Employment:	81
Growth Rate, 2016-2026:	1.3%
Annual Openings:	6

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	61.3%	60.5%
Self-employed Workers	7.5%	8.6%
334 Computer and Electronic Product Manufacturing	n	n
335 Electrical Equipment and Appliance Manufacturing	n	n
425 Wholesale Electronic Markets and Agents/Brokers	n	n
5417 Scientific Research and Development Services	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: Master's | none | none

2017 Average Wage:	\$36.12
2016 Estimated Employment:	73
2026 Projected Employment:	72
Growth Rate, 2016-2026:	-1.4%
Annual Openings:	5

Industry	2016 Share	2026 Share
5417 Scientific Research and Development Services	28.8%	25.0%
State Government, excl. Education and Hospitals	20.6%	20.8%
6113 Colleges and Universities	12.3%	12.5%
Self-employed Workers	2.7%	4.2%
425 Wholesale Electronic Markets and Agents/Brokers	n	n
523 Financial Investment and Related Activities	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: Master's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
511 Publishing Industries (except Internet)	n	n
5419 Other Professional, Scientific, and Technical Services	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/Residency

2017 Average Wage:	\$35.19
2016 Estimated Employment:	488
2026 Projected Employment:	546
Growth Rate, 2016-2026:	11.9%
Annual Openings:	39

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	33.2%	35.5%
6111 Elementary and Secondary Schools	27.7%	25.1%
Self-employed Workers	21.7%	22.5%
6113 Colleges and Universities	5.1%	4.8%
623 Nursing and Residential Care Facilities	3.7%	3.9%
622 Hospitals	2.7%	2.4%

19-3039 Psychologists, All Other



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

Training Category: Master's | none | Intern/Residency

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
622 Hospitals	n	n
Federal Government, Excluding Post Office	n	n

19-3041 Sociologists



Study human society and social behavior by examining the groups and social institutions that people form, as well as various social, religious, political, and business organizations. May study the behavior and interaction of groups, trace their origin and growth, and analyze the influence of group activities on individual members. *Social Scientist, Sociologist, Study Director*

Training Category: Master's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
6113 Colleges and Universities	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: Master's | none | none

2017 Average Wage:	\$30.64
2016 Estimated Employment:	182
2026 Projected Employment:	201
Growth Rate, 2016-2026:	10.4%
Annual Openings:	18

Industry	2016 Share	2026 Share
Local Government, Excluding Education	86.3%	86.1%
State Government, excl. Education and Hospitals	9.9%	10.0%
Federal Government, Excluding Post Office	0.6%	0.5%
5413 Architectural and Engineering Services	n	n
5416 Management and Technical Consulting Services	n	n

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: Master's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
5416 Management and Technical Consulting Services	n	n
6113 Colleges and Universities	n	n
712 Museums, Historical Sites, and Similar Institutions	n	n
Federal Government, Excluding Post Office	n	n

19-3092 Geographers



Study the nature and use of areas of the Earth's surface, relating and interpreting interactions of physical and cultural phenomena. Conduct research on physical aspects of a region, including land forms, climates, soils, plants, and animals, and conduct research on the spatial implications of human activities within a given area, including social characteristics, economic activities, and political organization, as well as researching interdependence between regions at scales ranging from local to global.

Training Category: Bachelor's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	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: Master's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
State Government, excl. 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: Master's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
6113 Colleges and Universities	n	n
Federal Government, Excluding Post Office	n	n
State Government, excl. Education and Hospitals	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's | none | none

2017 Average Wage:	\$38.38
2016 Estimated Employment:	45
2026 Projected Employment:	48
Growth Rate, 2016-2026:	6.7%
Annual Openings:	4

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	86.7%	81.3%
Self-employed Workers	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
311 Food Manufacturing	n	n
312 Beverage and Tobacco Product Manufacturing	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's | none | none

2017 Average Wage:	\$23.49
2016 Estimated Employment:	563
2026 Projected Employment:	623
Growth Rate, 2016-2026:	10.7%
Annual Openings:	61

Industry	2016 Share	2026 Share
6113 Colleges and Universities	39.1%	36.6%
5417 Scientific Research and Development Services	16.5%	17.0%
Federal Government, Excluding Post Office	3.9%	3.5%
325 Chemical Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n
621 Ambulatory Health Care Services	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

2017 Average Wage:	\$20.93
2016 Estimated Employment:	183
2026 Projected Employment:	191
Growth Rate, 2016-2026:	4.4%
Annual Openings:	18

Industry	2016 Share	2026 Share
5413 Architectural and Engineering Services	15.9%	16.8%
6113 Colleges and Universities	15.3%	15.2%
339 Miscellaneous Manufacturing	14.2%	13.1%
221 Utilities	n	n
325 Chemical Manufacturing	n	n
334 Computer and Electronic Product Manufacturing	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

2017 Average Wage:	\$21.65
2016 Estimated Employment:	27
2026 Projected Employment:	28
Growth Rate, 2016-2026:	3.7%
Annual Openings:	3

Industry	2016 Share	2026 Share
237 Heavy and Civil Engineering Construction	n	n
5413 Architectural and Engineering Services	n	n
State Government, excl. 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

2017 Average Wage:	\$23.85
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
221 Utilities	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's | none | none

2017 Average Wage:	\$23.55
2016 Estimated Employment:	29
2026 Projected Employment:	28
Growth Rate, 2016-2026:	-3.5%
Annual Openings:	3

Industry	2016 Share	2026 Share
6113 Colleges and Universities	75.9%	78.6%
5417 Scientific Research and Development Services	n	n
621 Ambulatory Health Care Services	n	n
Local Government, Excluding 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

2017 Average Wage:	\$22.54
2016 Estimated Employment:	202
2026 Projected Employment:	231
Growth Rate, 2016-2026:	14.4%
Annual Openings:	28

Industry	2016 Share	2026 Share
5416 Management and Technical Consulting Services	34.2%	38.1%
5413 Architectural and Engineering Services	17.8%	16.5%
State Government, excl. Education and Hospitals	10.9%	9.5%
6113 Colleges and Universities	8.9%	7.8%
5417 Scientific Research and Development Services	8.4%	8.2%
Local Government, Excluding Education	6.4%	6.1%

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's | none | Moderate OJT

2017 Average Wage:	\$35.19
2016 Estimated Employment:	41
2026 Projected Employment:	46
Growth Rate, 2016-2026:	12.2%
Annual Openings:	5

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	95.1%	95.7%
Local Government, Excluding Education	4.9%	4.4%

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

2017 Average Wage:	\$18.83
2016 Estimated Employment:	90
2026 Projected Employment:	95
Growth Rate, 2016-2026:	5.6%
Annual Openings:	11

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	66.7%	64.2%
813 Membership Organizations	20.0%	22.1%
Local Government, Excluding Education	11.1%	11.6%
5413 Architectural and Engineering Services	n	n
6113 Colleges and Universities	n	n

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

2017 Average Wage:	\$27.28
2016 Estimated Employment:	114
2026 Projected Employment:	120
Growth Rate, 2016-2026:	5.3%
Annual Openings:	15

Industry	2016 Share	2026 Share
5413 Architectural and Engineering Services	22.8%	22.5%
6113 Colleges and Universities	15.8%	15.0%
Federal Government, Excluding Post Office	14.9%	14.2%
335 Electrical Equipment and Appliance Manufacturing	n	n
5416 Management and Technical Consulting Services	n	n
5613 Employment Services	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's | none | none

2017 Average Wage:	\$23.61
2016 Estimated Employment:	239
2026 Projected Employment:	297
Growth Rate, 2016-2026:	24.3%
Annual Openings:	34

Industry	2016 Share	2026 Share
623 Nursing and Residential Care Facilities	47.7%	47.5%
621 Ambulatory Health Care Services	31.8%	31.3%
Self-employed Workers	6.7%	8.1%
6111 Elementary and Secondary Schools	n	n
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: Master's | none | none

2017 Average Wage:	\$28.50
2016 Estimated Employment:	1,155
2026 Projected Employment:	1,220
Growth Rate, 2016-2026:	5.6%
Annual Openings:	128

Industry	2016 Share	2026 Share
6111 Elementary and Secondary Schools	67.2%	64.8%
6113 Colleges and Universities	12.8%	13.9%
624 Social Assistance	5.5%	5.5%
Self-employed Workers	2.6%	3.7%
State Government, excl. Education and Hospitals	2.5%	2.5%
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: Master's | none | Intern/Residency

2017 Average Wage:	\$20.01
2016 Estimated Employment:	62
2026 Projected Employment:	77
Growth Rate, 2016-2026:	24.2%
Annual Openings:	9

Industry	2016 Share	2026 Share
624 Social Assistance	45.2%	45.5%
621 Ambulatory Health Care Services	41.9%	41.6%
Self-employed Workers	6.5%	7.8%
623 Nursing and Residential Care Facilities	6.5%	5.2%

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. *Examples: Behavior Analyst; Behavior Support Specialist; Correctional Counselor*

Training Category: Master's | none | Intern/Residency

2017 Average Wage:	\$23.85
2016 Estimated Employment:	1,025
2026 Projected Employment:	1,250
Growth Rate, 2016-2026:	22.0%
Annual Openings:	138

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	63.2%	62.6%
624 Social Assistance	15.1%	15.6%
Self-employed Workers	6.9%	8.5%
623 Nursing and Residential Care Facilities	5.1%	5.0%
622 Hospitals	3.0%	2.6%
6113 Colleges and Universities	2.1%	1.8%

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: Master's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	486
2026 Projected Employment:	537
Growth Rate, 2016-2026:	10.5%
Annual Openings:	58

Industry	2016 Share	2026 Share
624 Social Assistance	57.0%	54.8%
State Government, excl. Education and Hospitals	10.9%	10.1%
623 Nursing and Residential Care Facilities	10.5%	11.0%
Self-employed Workers	6.0%	8.2%
621 Ambulatory Health Care Services	4.5%	5.0%
551 Management of Companies and Enterprises	n	n

21-1019 Counselors, All Other



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

Training Category: Master's | none | none

2017 Average Wage:	\$17.01
2016 Estimated Employment:	148
2026 Projected Employment:	169
Growth Rate, 2016-2026:	14.2%
Annual Openings:	18

Industry	2016 Share	2026 Share
623 Nursing and Residential Care Facilities	25.0%	24.3%
624 Social Assistance	19.6%	20.7%
6116 Other Schools and Instruction	18.9%	21.3%
Local Government, Excluding Education	8.1%	7.7%
6113 Colleges and Universities	6.1%	5.3%
622 Hospitals	6.1%	5.9%

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's | none | none

2017 Average Wage:	\$23.46
2016 Estimated Employment:	496
2026 Projected Employment:	562
Growth Rate, 2016-2026:	13.3%
Annual Openings:	60

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	30.2%	27.1%
624 Social Assistance	29.0%	31.5%
621 Ambulatory Health Care Services	17.1%	18.7%
6111 Elementary and Secondary Schools	15.7%	14.1%
623 Nursing and Residential Care Facilities	2.0%	2.0%
Self-employed Workers	1.6%	2.3%

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: Master's | none | Intern/Residency

2017 Average Wage:	\$29.95
2016 Estimated Employment:	650
2026 Projected Employment:	751
Growth Rate, 2016-2026:	15.5%
Annual Openings:	79

Industry	2016 Share	2026 Share
622 Hospitals	32.8%	30.4%
621 Ambulatory Health Care Services	20.8%	24.0%
623 Nursing and Residential Care Facilities	16.3%	15.2%
State Government, excl. Education and Hospitals	12.8%	11.3%
624 Social Assistance	10.9%	12.1%
Local Government, Excluding Education	2.9%	2.5%

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: Master's | none | Intern/Residency

2017 Average Wage:	\$25.21
2016 Estimated Employment:	235
2026 Projected Employment:	277
Growth Rate, 2016-2026:	17.9%
Annual Openings:	29

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	66.0%	67.9%
State Government, excl. Education and Hospitals	19.2%	16.6%
Self-employed Workers	2.6%	3.3%
622 Hospitals	n	n
623 Nursing and Residential Care Facilities	n	n
624 Social Assistance	n	n

21-1029 Social Workers, All Other



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

Training Category: Bachelor's | none | none

2017 Average Wage:	\$29.36
2016 Estimated Employment:	78
2026 Projected Employment:	86
Growth Rate, 2016-2026:	10.3%
Annual Openings:	9

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	52.6%	48.8%
624 Social Assistance	41.0%	44.2%
Local Government, Excluding Education	5.1%	5.8%
Self-employed Workers	1.3%	1.2%

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 *Examples: Public Health Advisor; Public Health Representative*

Training Category: Bachelor's | none | none

2017 Average Wage:	\$26.31
2016 Estimated Employment:	187
2026 Projected Employment:	216
Growth Rate, 2016-2026:	15.5%
Annual Openings:	27

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	25.1%	27.8%
6113 Colleges and Universities	14.4%	12.5%
State Government, excl. Education and Hospitals	8.0%	6.9%
622 Hospitals	7.5%	6.9%
5416 Management and Technical Consulting Services	n	n
5417 Scientific Research and Development Services	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's | none | Short OJT

2017 Average Wage:	\$29.74
2016 Estimated Employment:	250
2026 Projected Employment:	255
Growth Rate, 2016-2026:	2.0%
Annual Openings:	21

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	86.8%	86.3%
Local Government, Excluding Education	13.2%	13.7%

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

2017 Average Wage:	\$15.64
2016 Estimated Employment:	2,088
2026 Projected Employment:	2,460
Growth Rate, 2016-2026:	17.8%
Annual Openings:	302

Industry	2016 Share	2026 Share
624 Social Assistance	57.8%	59.0%
621 Ambulatory Health Care Services	13.8%	14.5%
623 Nursing and Residential Care Facilities	12.4%	12.0%
State Government, excl. Education and Hospitals	5.2%	4.5%
813 Membership Organizations	3.2%	3.1%
Local Government, Excluding Education	2.3%	2.0%

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

2017 Average Wage:	\$18.64
2016 Estimated Employment:	189
2026 Projected Employment:	231
Growth Rate, 2016-2026:	22.2%
Annual Openings:	30

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	54.0%	55.4%
624 Social Assistance	29.6%	29.4%
622 Hospitals	5.8%	4.8%
524 Insurance Carriers and Related Activities	n	n
813 Membership Organizations	n	n
Local Government, Excluding Education	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: Bachelor's | none | none

2017 Average Wage:	\$22.33
2016 Estimated Employment:	467
2026 Projected Employment:	551
Growth Rate, 2016-2026:	18.0%
Annual Openings:	69

Industry	2016 Share	2026 Share
624 Social Assistance	38.1%	39.0%
813 Membership Organizations	18.0%	17.1%
621 Ambulatory Health Care Services	12.6%	13.8%
623 Nursing and Residential Care Facilities	9.0%	8.5%
Local Government, Excluding Education	5.6%	4.9%
524 Insurance Carriers and Related Activities	4.1%	4.2%

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's | none | Moderate OJT

2017 Average Wage:	\$26.47
2016 Estimated Employment:	749
2026 Projected Employment:	828
Growth Rate, 2016-2026:	10.6%
Annual Openings:	92

Industry	2016 Share	2026 Share
813 Membership Organizations	85.3%	84.4%
621 Ambulatory Health Care Services	4.3%	5.4%
622 Hospitals	4.0%	3.9%
6111 Elementary and Secondary Schools	1.9%	1.8%
6113 Colleges and Universities	1.2%	1.2%
623 Nursing and Residential Care Facilities	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's | < 5 yrs | none

2017 Average Wage:	n/a
2016 Estimated Employment:	438
2026 Projected Employment:	477
Growth Rate, 2016-2026:	8.9%
Annual Openings:	59

Industry	2016 Share	2026 Share
813 Membership Organizations	93.4%	93.7%
Self-employed Workers	2.3%	1.9%
6113 Colleges and Universities	2.1%	2.1%
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's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	173
2026 Projected Employment:	190
Growth Rate, 2016-2026:	9.8%
Annual Openings:	26

Industry	2016 Share	2026 Share
813 Membership Organizations	85.6%	85.3%
6111 Elementary and Secondary Schools	13.9%	13.7%

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

2017 Average Wage:	\$56.61
2016 Estimated Employment:	1,949
2026 Projected Employment:	2,092
Growth Rate, 2016-2026:	7.3%
Annual Openings:	98

Industry		2016 Share	2026 Share
5411	Legal Services	58.0%	57.7%
	Self-employed Workers	18.1%	17.1%
	Local Government, Excluding Education	6.8%	6.6%
	State Government, excl. Education and Hospitals	3.3%	3.1%
551	Management of Companies and Enterprises	2.8%	3.2%
	Federal Government, Excluding Post Office	2.4%	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+ yrs | Short OJT

2017 Average Wage:	\$35.97
2016 Estimated Employment:	141
2026 Projected Employment:	142
Growth Rate, 2016-2026:	0.7%
Annual Openings:	6

Industry		2016 Share	2026 Share
	State Government, excl. Education and Hospitals	90.8%	90.9%
	Federal Government, Excluding Post Office	9.2%	9.2%

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's | < 5 yr | Moderate OJT

2017 Average Wage:	\$39.90
2016 Estimated Employment:	56
2026 Projected Employment:	61
Growth Rate, 2016-2026:	8.9%
Annual Openings:	2

Industry		2016 Share	2026 Share
813	Membership Organizations	28.6%	29.5%
5416	Management and Technical Consulting Services	23.2%	26.2%
	Self-employed Workers	14.3%	13.1%
5613	Employment Services	12.5%	11.5%
6113	Colleges and Universities	10.7%	9.8%
	State Government, excl. Education and Hospitals	8.9%	8.2%

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+ yrs | Short OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	95
2026 Projected Employment:	96
Growth Rate, 2016-2026:	1.1%
Annual Openings:	4

Industry		2016 Share	2026 Share
	State Government, excl. Education and Hospitals	95.8%	95.8%
	Federal Government, Excluding Post Office	4.2%	4.2%

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

2017 Average Wage:	\$24.95
2016 Estimated Employment:	1,139
2026 Projected Employment:	1,296
Growth Rate, 2016-2026:	13.8%
Annual Openings:	137

Industry	2016 Share	2026 Share
5411 Legal Services	81.2%	81.8%
State Government, excl. Education and Hospitals	4.9%	4.4%
Local Government, Excluding Education	4.0%	3.6%
Self-employed Workers	1.6%	1.5%
5614 Business Support Services	1.4%	1.5%
524 Insurance Carriers and Related Activities	1.3%	1.3%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 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 | Moderate OJT

2017 Average Wage:	\$21.07
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
524 Insurance Carriers and Related Activities	n	n
5411 Legal Services	n	n
551 Management of Companies and Enterprises	n	n
5613 Employment Services	n	n
State Government, excl. Education and Hospitals	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: Associate | none | none

2017 Average Wage:	\$27.33
2016 Estimated Employment:	122
2026 Projected Employment:	126
Growth Rate, 2016-2026:	3.3%
Annual Openings:	10

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	50.0%	49.2%
State Government, excl. Education and Hospitals	12.3%	11.9%
5411 Legal Services	9.0%	8.7%
Local Government, Excluding Education	8.2%	7.9%
Self-employed Workers	6.6%	7.1%
624 Social Assistance	5.7%	7.1%

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

2017 Average Wage:	\$127,684
2016 Estimated Employment:	473
2026 Projected Employment:	542
Growth Rate, 2016-2026:	14.6%
Annual Openings:	45

Industry	2016 Share	2026 Share
6113 Colleges and Universities	92.8%	93.2%
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

2017 Average Wage:	\$97,289
2016 Estimated Employment:	126
2026 Projected Employment:	133
Growth Rate, 2016-2026:	5.6%
Annual Openings:	11

Industry	2016 Share	2026 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

2017 Average Wage:	\$103,926
2016 Estimated Employment:	179
2026 Projected Employment:	188
Growth Rate, 2016-2026:	5.0%
Annual Openings:	15

Industry	2016 Share	2026 Share
6112 Junior Colleges	n	n
6113 Colleges and Universities	n	n

25-1031 Architecture Teachers, Postsecondary



Teach courses in architecture and architectural design, such as architectural environmental design, interior architecture/design, and landscape architecture. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Training Category: Doctorate/Prof | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
6113 Colleges and Universities	100.0%	100.0%

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

2017 Average Wage:	\$122,991
2016 Estimated Employment:	158
2026 Projected Employment:	172
Growth Rate, 2016-2026:	8.9%
Annual Openings:	13

Industry	2016 Share	2026 Share
6112 Junior Colleges	n	n
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

2017 Average Wage:	\$105,638
2016 Estimated Employment:	305
2026 Projected Employment:	335
Growth Rate, 2016-2026:	9.8%
Annual Openings:	27

Industry	2016 Share	2026 Share
6112 Junior Colleges	n	n
6113 Colleges and Universities	n	n

25-1043 Forestry and Conservation Science Teachers, Postsecondary



Teach courses in forestry and conservation science. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Training Category: Doctorate/Prof | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
6113 Colleges and Universities	100.0%	100.0%

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

2017 Average Wage:	\$90,327
2016 Estimated Employment:	106
2026 Projected Employment:	109
Growth Rate, 2016-2026:	2.8%
Annual Openings:	8

Industry	2016 Share	2026 Share
6113 Colleges and Universities	100.0%	100.0%

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

2017 Average Wage:	\$98,232
2016 Estimated Employment:	102
2026 Projected Employment:	108
Growth Rate, 2016-2026:	5.9%
Annual Openings:	9

Industry	2016 Share	2026 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

2017 Average Wage:	\$89,741
2016 Estimated Employment:	99
2026 Projected Employment:	103
Growth Rate, 2016-2026:	4.0%
Annual Openings:	8

Industry	2016 Share	2026 Share
6113 Colleges and Universities	100.0%	100.0%

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

2017 Average Wage:	\$101,137
2016 Estimated Employment:	95
2026 Projected Employment:	99
Growth Rate, 2016-2026:	4.2%
Annual Openings:	8

Industry	2016 Share	2026 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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
6113 Colleges and Universities	100.0%	100.0%

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

2017 Average Wage:	\$87,071
2016 Estimated Employment:	83
2026 Projected Employment:	87
Growth Rate, 2016-2026:	4.8%
Annual Openings:	6

Industry	2016 Share	2026 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

2017 Average Wage:	\$150,703
2016 Estimated Employment:	106
2026 Projected Employment:	111
Growth Rate, 2016-2026:	4.7%
Annual Openings:	8

Industry	2016 Share	2026 Share
6113 Colleges and Universities	100.0%	100.0%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
6113 Colleges and Universities	100.0%	100.0%

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

2017 Average Wage:	\$101,432
2016 Estimated Employment:	86
2026 Projected Employment:	90
Growth Rate, 2016-2026:	4.7%
Annual Openings:	6

Industry	2016 Share	2026 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

2017 Average Wage:	\$92,359
2016 Estimated Employment:	258
2026 Projected Employment:	283
Growth Rate, 2016-2026:	9.7%
Annual Openings:	22

Industry	2016 Share	2026 Share
6113 Colleges and Universities	n	n
6117 Educational Support Services	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

2017 Average Wage:	\$93,078
2016 Estimated Employment:	91
2026 Projected Employment:	94
Growth Rate, 2016-2026:	3.3%
Annual Openings:	7

Industry	2016 Share	2026 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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 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 yrs | none

2017 Average Wage:	\$129,382
2016 Estimated Employment:	584
2026 Projected Employment:	697
Growth Rate, 2016-2026:	19.4%
Annual Openings:	59

Industry	2016 Share	2026 Share
6113 Colleges and Universities	84.1%	84.1%
6115 Technical and Trade Schools	3.1%	3.2%
Self-employed Workers	n	n
6112 Junior Colleges	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: Doctorate/Prof | < 5 yrs | none

2017 Average Wage:	\$81,990
2016 Estimated Employment:	232
2026 Projected Employment:	280
Growth Rate, 2016-2026:	20.7%
Annual Openings:	24

Industry	2016 Share	2026 Share
6113 Colleges and Universities	70.3%	70.0%
622 Hospitals	9.5%	9.6%
Self-employed Workers	n	n
6112 Junior Colleges	n	n
621 Ambulatory Health Care Services	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 yrs | none

2017 Average Wage:	\$72,494
2016 Estimated Employment:	259
2026 Projected Employment:	271
Growth Rate, 2016-2026:	4.6%
Annual Openings:	21

Industry	2016 Share	2026 Share
6113 Colleges and Universities	90.4%	90.0%
Self-employed Workers	n	n
6112 Junior Colleges	n	n

25-1082 Library Science Teachers, Postsecondary



Teach courses in library science. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Training Category: Doctorate/Prof | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
6113 Colleges and Universities	100.0%	100.0%

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

2017 Average Wage:	\$71,997
2016 Estimated Employment:	43
2026 Projected Employment:	48
Growth Rate, 2016-2026:	11.6%
Annual Openings:	4

Industry	2016 Share	2026 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 | < 5 yrs | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
6112 Junior Colleges	100.0%	100.0%

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

2017 Average Wage:	\$79,135
2016 Estimated Employment:	58
2026 Projected Employment:	61
Growth Rate, 2016-2026:	5.2%
Annual Openings:	4

Industry	2016 Share	2026 Share
6113 Colleges and Universities	91.4%	90.2%
6112 Junior Colleges	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: Master's | none | none

2017 Average Wage:	\$91,927
2016 Estimated Employment:	632
2026 Projected Employment:	667
Growth Rate, 2016-2026:	5.5%
Annual Openings:	53

Industry	2016 Share	2026 Share
6113 Colleges and Universities	95.3%	94.8%
6116 Other Schools and Instruction	2.4%	2.9%
Self-employed Workers	n	n
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

2017 Average Wage:	\$86,312
2016 Estimated Employment:	75
2026 Projected Employment:	78
Growth Rate, 2016-2026:	4.0%
Annual Openings:	6

Industry	2016 Share	2026 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

2017 Average Wage:	\$82,946
2016 Estimated Employment:	384
2026 Projected Employment:	405
Growth Rate, 2016-2026:	5.5%
Annual Openings:	31

Industry	2016 Share	2026 Share
6113 Colleges and Universities	85.4%	84.4%
6112 Junior Colleges	n	n
6117 Educational Support Services	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

2017 Average Wage:	\$89,414
2016 Estimated Employment:	164
2026 Projected Employment:	173
Growth Rate, 2016-2026:	5.5%
Annual Openings:	13

Industry	2016 Share	2026 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

2017 Average Wage:	\$93,363
2016 Estimated Employment:	119
2026 Projected Employment:	125
Growth Rate, 2016-2026:	5.0%
Annual Openings:	10

Industry	2016 Share	2026 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

2017 Average Wage:	\$95,150
2016 Estimated Employment:	102
2026 Projected Employment:	109
Growth Rate, 2016-2026:	6.9%
Annual Openings:	9

Industry	2016 Share	2026 Share
6113 Colleges and Universities	100.0%	100.0%

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

2017 Average Wage:	\$78,957
2016 Estimated Employment:	61
2026 Projected Employment:	63
Growth Rate, 2016-2026:	3.3%
Annual Openings:	4

Industry	2016 Share	2026 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's | < 5 yrs | none

2017 Average Wage:	\$29.57
2016 Estimated Employment:	209
2026 Projected Employment:	226
Growth Rate, 2016-2026:	8.1%
Annual Openings:	18

Industry	2016 Share	2026 Share
6115 Technical and Trade Schools	56.9%	58.4%
State Government, excl. Education and Hospitals	6.2%	6.2%
6112 Junior Colleges	n	n
6113 Colleges and Universities	n	n

25-1199 Postsecondary Teachers, All Other 

All postsecondary teachers not listed separately.

Training Category: Doctorate/Prof | none | none

2017 Average Wage:	\$65,273
2016 Estimated Employment:	412
2026 Projected Employment:	431
Growth Rate, 2016-2026:	4.6%
Annual Openings:	33

Industry	2016 Share	2026 Share
6113 Colleges and Universities	83.3%	82.6%
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

2017 Average Wage:	\$14.73
2016 Estimated Employment:	3,057
2026 Projected Employment:	3,322
Growth Rate, 2016-2026:	8.7%
Annual Openings:	333

Industry	2016 Share	2026 Share
624 Social Assistance	80.6%	80.9%
813 Membership Organizations	7.7%	7.7%
6111 Elementary and Secondary Schools	4.5%	4.3%
622 Hospitals	3.7%	3.6%
6113 Colleges and Universities	1.8%	1.7%

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's | none | none

2017 Average Wage:	\$52,341
2016 Estimated Employment:	423
2026 Projected Employment:	437
Growth Rate, 2016-2026:	3.3%
Annual Openings:	42

Industry	2016 Share	2026 Share
6111 Elementary and Secondary Schools	86.5%	85.6%
624 Social Assistance	13.2%	14.2%

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's | none | none

2017 Average Wage:	\$57,609
2016 Estimated Employment:	5,675
2026 Projected Employment:	5,790
Growth Rate, 2016-2026:	2.0%
Annual Openings:	413

Industry	2016 Share	2026 Share
6111 Elementary and Secondary Schools	98.9%	98.8%
813 Membership Organizations	1.1%	1.2%

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's | none | none

2017 Average Wage:	\$59,690
2016 Estimated Employment:	3,531
2026 Projected Employment:	3,607
Growth Rate, 2016-2026:	2.2%
Annual Openings:	258

Industry	2016 Share	2026 Share
6111 Elementary and Secondary Schools	99.7%	99.6%
6116 Other Schools and Instruction	0.3%	0.4%

25-2023 Career/Technical Education Teachers, Middle School



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

Training Category: Bachelor's | < 5 yrs | none

2017 Average Wage:	\$63,146
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 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's | none | none

2017 Average Wage:	\$58,749
2016 Estimated Employment:	4,937
2026 Projected Employment:	5,043
Growth Rate, 2016-2026:	2.2%
Annual Openings:	350

Industry		2016 Share	2026 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's | < 5 yrs | none

2017 Average Wage:	\$59,163
2016 Estimated Employment:	350
2026 Projected Employment:	354
Growth Rate, 2016-2026:	1.1%
Annual Openings:	24

Industry		2016 Share	2026 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's | none | none

2017 Average Wage:	\$45,113
2016 Estimated Employment:	47
2026 Projected Employment:	49
Growth Rate, 2016-2026:	4.3%
Annual Openings:	4

Industry		2016 Share	2026 Share
6111	Elementary and Secondary Schools	74.5%	71.4%
624	Social Assistance	25.5%	28.6%

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's | none | none

2017 Average Wage:	\$56,821
2016 Estimated Employment:	1,032
2026 Projected Employment:	1,051
Growth Rate, 2016-2026:	1.8%
Annual Openings:	75

Industry		2016 Share	2026 Share
6111	Elementary and Secondary Schools	96.4%	96.1%
623	Nursing and Residential Care Facilities	3.6%	3.9%

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's | none | none

2017 Average Wage:	\$56,923
2016 Estimated Employment:	585
2026 Projected Employment:	594
Growth Rate, 2016-2026:	1.5%
Annual Openings:	43

Industry		2016 Share	2026 Share
6111	Elementary and Secondary Schools	100.0%	100.0%

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's | none | none

2017 Average Wage:	\$61,077
2016 Estimated Employment:	686
2026 Projected Employment:	701
Growth Rate, 2016-2026:	2.2%
Annual Openings:	50

Industry		2016 Share	2026 Share
6111	Elementary and Secondary Schools	96.8%	96.3%
622	Hospitals	3.2%	3.7%

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's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
6111	Elementary and Secondary Schools	n	n
624	Social Assistance	n	n
	Federal Government, Excluding Post Office	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's | none | none

2017 Average Wage:	\$22.84
2016 Estimated Employment:	171
2026 Projected Employment:	174
Growth Rate, 2016-2026:	1.8%
Annual Openings:	18

Industry		2016 Share	2026 Share
6111	Elementary and Secondary Schools	39.8%	33.9%
	Self-employed Workers	7.0%	7.5%
6114	Business, Computer, and Management Training	n	n
6116	Other Schools and Instruction	n	n
6117	Educational Support Services	n	n
813	Membership Organizations	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

2017 Average Wage:	\$21.63
2016 Estimated Employment:	2,085
2026 Projected Employment:	2,441
Growth Rate, 2016-2026:	17.1%
Annual Openings:	280

Industry	2016 Share	2026 Share
6116 Other Schools and Instruction	39.0%	43.3%
Self-employed Workers	17.5%	17.0%
813 Membership Organizations	14.5%	13.5%
6114 Business, Computer, and Management Training	5.6%	4.1%
713 Amusement, Gambling, and Recreation	5.6%	5.2%
6113 Colleges and Universities	5.1%	4.6%

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



All teachers and instructors not listed separately. *Example: Tutor*

Training Category: Bachelor's | none | none

2017 Average Wage:	\$41,267
2016 Estimated Employment:	1,648
2026 Projected Employment:	1,760
Growth Rate, 2016-2026:	6.8%
Annual Openings:	195

Industry	2016 Share	2026 Share
6111 Elementary and Secondary Schools	54.7%	52.1%
6116 Other Schools and Instruction	10.6%	12.8%
Self-employed Workers	7.0%	7.5%
624 Social Assistance	5.5%	5.9%
6113 Colleges and Universities	3.6%	3.6%
6112 Junior Colleges	n	n

25-3098 Substitute Teachers



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

Training Category: Bachelor's | none | none

2017 Average Wage:	\$11.64
2016 Estimated Employment:	2,288
2026 Projected Employment:	2,345
Growth Rate, 2016-2026:	2.5%
Annual Openings:	255

Industry	2016 Share	2026 Share
6111 Elementary and Secondary Schools	92.4%	91.5%
Self-employed Workers	7.0%	7.9%
623 Nursing and Residential Care Facilities	n	n
624 Social Assistance	n	n

25-4011 Archivists



Appraise, edit, and direct safekeeping of permanent records and historically valuable documents. Participate in research activities based on archival materials. *Archival Records Clerk, Archives Director,*

Training Category: Master's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
519 Other Information Services	n	n
712 Museums, Historical Sites, and Similar Institutions	n	n
6111 Elementary and Secondary Schools	n	n
6113 Colleges and Universities	n	n
Federal Government, Excluding Post Office	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: Master's | none | none

2017 Average Wage:	\$23.52
2016 Estimated Employment:	84
2026 Projected Employment:	94
Growth Rate, 2016-2026:	11.9%
Annual Openings:	10

Industry	2016 Share	2026 Share
712 Museums, Historical Sites, and Similar Institutions	64.3%	67.0%
6113 Colleges and Universities	25.0%	23.4%
6111 Elementary and Secondary Schools	4.8%	4.3%
813 Membership Organizations	2.4%	2.1%
519 Other Information Services	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's | none | none

2017 Average Wage:	\$19.84
2016 Estimated Employment:	27
2026 Projected Employment:	29
Growth Rate, 2016-2026:	7.4%
Annual Openings:	3

Industry	2016 Share	2026 Share
6113 Colleges and Universities	40.7%	37.9%
712 Museums, Historical Sites, and Similar Institutions	29.6%	34.5%
Local Government, Excluding Education	25.9%	24.1%
Federal Government, Excluding Post Office	3.7%	3.5%

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: Master's | none | none

2017 Average Wage:	\$27.01
2016 Estimated Employment:	999
2026 Projected Employment:	1,032
Growth Rate, 2016-2026:	3.3%
Annual Openings:	97

Industry	2016 Share	2026 Share
Local Government, Excluding Education	39.9%	40.7%
6111 Elementary and Secondary Schools	28.7%	28.3%
6113 Colleges and Universities	18.6%	18.9%
519 Other Information Services	5.2%	4.8%
State Government, excl. Education and Hospitals	0.9%	0.9%
424 Merchant Wholesalers, Nondurable Goods	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

2017 Average Wage:	\$17.65
2016 Estimated Employment:	622
2026 Projected Employment:	649
Growth Rate, 2016-2026:	4.3%
Annual Openings:	85

Industry	2016 Share	2026 Share
Local Government, Excluding Education	56.8%	57.3%
6113 Colleges and Universities	24.1%	24.2%
6111 Elementary and Secondary Schools	13.5%	13.1%
State Government, excl. Education and Hospitals	1.1%	1.1%
519 Other Information Services	n	n
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's | < 5 yrs | none

2017 Average Wage:	\$30.12
2016 Estimated Employment:	44
2026 Projected Employment:	45
Growth Rate, 2016-2026:	2.3%
Annual Openings:	4

Industry	2016 Share	2026 Share
6111 Elementary and Secondary Schools	61.4%	60.0%
6113 Colleges and Universities	25.0%	24.4%
Self-employed Workers	2.3%	2.2%
551 Management of Companies and Enterprises	n	n
622 Hospitals	n	n
State Government, excl. Education and 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: Master's | 5+ yrs | none

2017 Average Wage:	\$30.87
2016 Estimated Employment:	684
2026 Projected Employment:	752
Growth Rate, 2016-2026:	9.9%
Annual Openings:	70

Industry	2016 Share	2026 Share
6111 Elementary and Secondary Schools	32.2%	29.8%
6113 Colleges and Universities	28.2%	26.7%
624 Social Assistance	4.0%	4.1%
State Government, excl. Education and Hospitals	3.7%	3.3%
621 Ambulatory Health Care Services	3.5%	4.0%
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

2017 Average Wage:	\$29,815
2016 Estimated Employment:	8,507
2026 Projected Employment:	8,730
Growth Rate, 2016-2026:	2.6%
Annual Openings:	888

Industry	2016 Share	2026 Share
6111 Elementary and Secondary Schools	91.7%	91.0%
624 Social Assistance	2.3%	2.5%
623 Nursing and Residential Care Facilities	1.8%	1.9%
813 Membership Organizations	1.3%	1.4%
6113 Colleges and Universities	n	n
6116 Other Schools and Instruction	n	n

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



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

Training Category: Bachelor's | none | none

2017 Average Wage:	\$25.21
2016 Estimated Employment:	378
2026 Projected Employment:	423
Growth Rate, 2016-2026:	11.9%
Annual Openings:	39

Industry	2016 Share	2026 Share
6111 Elementary and Secondary Schools	31.0%	28.1%
6113 Colleges and Universities	18.3%	17.0%
622 Hospitals	5.0%	4.7%
6115 Technical and Trade Schools	5.0%	4.7%
6112 Junior Colleges	n	n
6117 Educational Support Services	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's | 5+ yrs | none

2017 Average Wage:	\$42.80
2016 Estimated Employment:	231
2026 Projected Employment:	249
Growth Rate, 2016-2026:	7.8%
Annual Openings:	21

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
323 Printing and Related Support Activities	n	n
511 Publishing Industries (except Internet)	n	n
5414 Specialized Design Services	n	n
5415 Computer Systems Design and Related Services	n	n
5418 Advertising, Public Relations, and Related Services	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

2017 Average Wage:	n/a
2016 Estimated Employment:	127
2026 Projected Employment:	132
Growth Rate, 2016-2026:	3.9%
Annual Openings:	10

Industry	2016 Share	2026 Share
Self-employed Workers	56.7%	56.8%
711 Performing Arts and Spectator Sports	3.9%	3.8%
327 Nonmetallic Mineral Product Manufacturing	n	n
453 Miscellaneous Store Retailers	n	n
712 Museums, Historical Sites, and Similar Institutions	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's | none | Long OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	32
2026 Projected Employment:	34
Growth Rate, 2016-2026:	6.3%
Annual Openings:	3

Industry	2016 Share	2026 Share
Self-employed Workers	56.3%	55.9%
511 Publishing Industries (except Internet)	21.9%	20.6%
6113 Colleges and Universities	21.9%	23.5%

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's | none | none

2017 Average Wage:	\$31.64
2016 Estimated Employment:	118
2026 Projected Employment:	128
Growth Rate, 2016-2026:	8.5%
Annual Openings:	11

Industry	2016 Share	2026 Share
Self-employed Workers	55.1%	53.1%
5414 Specialized Design Services	14.4%	14.8%
5418 Advertising, Public Relations, and Related Services	13.6%	15.6%
512 Motion Picture and Sound Recording Industries	n	n
5415 Computer Systems Design and Related Services	n	n
711 Performing Arts and Spectator Sports	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

2017 Average Wage:	n/a
2016 Estimated Employment:	21
2026 Projected Employment:	22
Growth Rate, 2016-2026:	4.8%
Annual Openings:	2

Industry		2016 Share	2026 Share
	Self-employed Workers	38.1%	40.9%
551	Management of Companies and Enterprises	n	n
	Federal Government, Excluding Post Office	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's | none | none

2017 Average Wage:	\$34.00
2016 Estimated Employment:	117
2026 Projected Employment:	123
Growth Rate, 2016-2026:	5.1%
Annual Openings:	12

Industry		2016 Share	2026 Share
	Self-employed Workers	17.1%	17.1%
326	Plastics and Rubber Products Manufacturing	n	n
339	Miscellaneous Manufacturing	n	n
423	Merchant Wholesalers, Durable Goods	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's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	102
2026 Projected Employment:	113
Growth Rate, 2016-2026:	10.8%
Annual Openings:	11

Industry		2016 Share	2026 Share
	Self-employed Workers	16.7%	15.9%
315	Apparel Manufacturing	n	n
424	Merchant Wholesalers, Nondurable Goods	n	n
454	Nonstore Retailers	n	n
551	Management of Companies and Enterprises	n	n
711	Performing Arts and Spectator Sports	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

2017 Average Wage:	\$13.20
2016 Estimated Employment:	262
2026 Projected Employment:	236
Growth Rate, 2016-2026:	-9.9%
Annual Openings:	20

Industry		2016 Share	2026 Share
453	Miscellaneous Store Retailers	69.1%	63.6%
	Self-employed Workers	16.8%	19.5%
445	Food and Beverage Stores	5.3%	6.4%
444	Building Material and Garden Supply Stores	n	n
451	Sporting Goods, Hobby, Book, and 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's | none | none

2017 Average Wage:	\$23.53
2016 Estimated Employment:	1,118
2026 Projected Employment:	1,160
Growth Rate, 2016-2026:	3.8%
Annual Openings:	108

Industry	2016 Share	2026 Share
Self-employed Workers	16.1%	16.2%
5414 Specialized Design Services	12.4%	12.8%
511 Publishing Industries (except Internet)	12.2%	9.3%
323 Printing and Related Support Activities	9.2%	8.5%
5418 Advertising, Public Relations, and Related Services	8.2%	9.4%
339 Miscellaneous Manufacturing	4.7%	4.2%

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's | none | none

2017 Average Wage:	\$23.88
2016 Estimated Employment:	188
2026 Projected Employment:	196
Growth Rate, 2016-2026:	4.3%
Annual Openings:	19

Industry	2016 Share	2026 Share
442 Furniture and Home Furnishings Stores	19.7%	18.4%
Self-employed Workers	16.5%	16.8%
236 Construction of Buildings	16.0%	17.4%
5414 Specialized Design Services	13.8%	14.3%
423 Merchant Wholesalers, Durable Goods	n	n
5413 Architectural and Engineering 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 | Short OJT

2017 Average Wage:	\$14.17
2016 Estimated Employment:	782
2026 Projected Employment:	878
Growth Rate, 2016-2026:	12.3%
Annual Openings:	86

Industry	2016 Share	2026 Share
424 Merchant Wholesalers, Nondurable Goods	53.3%	56.8%
Self-employed Workers	17.1%	16.0%
5418 Advertising, Public Relations, and Related Services	9.7%	10.4%
452 General Merchandise Stores	9.3%	7.5%
448 Clothing and Clothing Accessories Stores	5.4%	4.3%
444 Building Material and Garden Supply Stores	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's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
423 Merchant Wholesalers, Durable Goods	n	n
712 Museums, Historical Sites, and Similar Institutions	n	n
5416 Management and Technical Consulting Services	n	n
6113 Colleges and Universities	n	n
Federal Government, Excluding Post Office	n	n

27-1029 Designers, All Other



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

Training Category: Bachelor's | none | none

2017 Average Wage:	\$42.68
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
334 Computer and Electronic Product Manufacturing	n	n
5415 Computer Systems Design and Related Services	n	n
5419 Other Professional, Scientific, and Technical Services	n	n
6113 Colleges and Universities	n	n
6117 Educational Support Services	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

2017 Average Wage:	n/a
2016 Estimated Employment:	103
2026 Projected Employment:	109
Growth Rate, 2016-2026:	5.8%
Annual Openings:	11

Industry	2016 Share	2026 Share
711 Performing Arts and Spectator Sports	43.7%	44.0%
Self-employed Workers	23.3%	22.9%
512 Motion Picture and Sound Recording Industries	n	n
622 Hospitals	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's | < 5 yrs | none

2017 Average Wage:	\$29.77
2016 Estimated Employment:	247
2026 Projected Employment:	265
Growth Rate, 2016-2026:	7.3%
Annual Openings:	24

Industry	2016 Share	2026 Share
711 Performing Arts and Spectator Sports	34.0%	34.0%
515 Broadcasting (except Internet)	25.5%	23.8%
Self-employed Workers	14.2%	14.3%
Local Government, Excluding Education	4.9%	4.9%
512 Motion Picture and Sound Recording Industries	n	n
6113 Colleges and Universities	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
551 Management of Companies and Enterprises	n	n
713 Amusement, Gambling, and Recreation	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's | none | none

2017 Average Wage:	\$40,449
2016 Estimated Employment:	1,410
2026 Projected Employment:	1,578
Growth Rate, 2016-2026:	11.9%
Annual Openings:	213

Industry	2016 Share	2026 Share
6113 Colleges and Universities	37.2%	35.1%
713 Amusement, Gambling, and Recreation	23.0%	22.7%
6116 Other Schools and Instruction	21.8%	25.2%
Self-employed Workers	8.8%	8.6%
813 Membership Organizations	4.5%	4.1%
6111 Elementary and Secondary Schools	3.9%	3.6%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
6111 Elementary and Secondary Schools	n	n
6113 Colleges and Universities	n	n
813 Membership Organizations	n	n

27-2031 Dancers



Perform dances. May also sing or act.

Training Category: none | none | Long OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
711 Performing Arts and Spectator Sports	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's | < 5 yrs | none

2017 Average Wage:	\$26.61
2016 Estimated Employment:	227
2026 Projected Employment:	241
Growth Rate, 2016-2026:	6.2%
Annual Openings:	24

Industry	2016 Share	2026 Share
813 Membership Organizations	53.7%	55.6%
Self-employed Workers	22.9%	22.8%
6111 Elementary and Secondary Schools	18.9%	17.0%
6113 Colleges and Universities	4.4%	4.6%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	369
2026 Projected Employment:	399
Growth Rate, 2016-2026:	8.1%
Annual Openings:	39

Industry	2016 Share	2026 Share
813 Membership Organizations	64.5%	65.2%
Self-employed Workers	32.0%	31.3%
6113 Colleges and Universities	n	n
711 Performing Arts and Spectator Sports	n	n
722 Food Services and Drinking Places	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

2017 Average Wage:	\$13.83
2016 Estimated Employment:	115
2026 Projected Employment:	124
Growth Rate, 2016-2026:	7.8%
Annual Openings:	14

Industry	2016 Share	2026 Share
Self-employed Workers	47.0%	46.8%
6113 Colleges and Universities	40.0%	38.7%
5416 Management and Technical Consulting Services	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's | none | none

2017 Average Wage:	\$16.94
2016 Estimated Employment:	139
2026 Projected Employment:	119
Growth Rate, 2016-2026:	-14.4%
Annual Openings:	11

Industry	2016 Share	2026 Share
515 Broadcasting (except Internet)	69.1%	62.2%
Self-employed Workers	26.6%	32.8%
813 Membership Organizations	4.3%	5.0%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
6113 Colleges and Universities	n	n

27-3021 Broadcast News Analysts



Analyze, interpret, and broadcast news received from various sources.

Training Category: Bachelor's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
515 Broadcasting (except Internet)	n	n
5419 Other Professional, Scientific, and 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's | none | none

2017 Average Wage:	\$16.64
2016 Estimated Employment:	256
2026 Projected Employment:	187
Growth Rate, 2016-2026:	-27.0%
Annual Openings:	15

Industry	2016 Share	2026 Share
511 Publishing Industries (except Internet)	85.9%	78.1%
Self-employed Workers	9.8%	15.5%
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's | none | none

2017 Average Wage:	\$29.86
2016 Estimated Employment:	1,305
2026 Projected Employment:	1,449
Growth Rate, 2016-2026:	11.0%
Annual Openings:	146

Industry	2016 Share	2026 Share
813 Membership Organizations	21.8%	21.7%
6113 Colleges and Universities	16.8%	15.7%
5418 Advertising, Public Relations, and Related Services	8.7%	9.3%
5611 Office Administrative Services	6.1%	6.8%
5416 Management and Technical Consulting Services	4.3%	5.0%
551 Management of Companies and Enterprises	3.6%	3.5%

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's | < 5 yrs | none

2017 Average Wage:	\$24.50
2016 Estimated Employment:	524
2026 Projected Employment:	500
Growth Rate, 2016-2026:	-4.6%
Annual Openings:	47

Industry	2016 Share	2026 Share
511 Publishing Industries (except Internet)	48.9%	40.4%
Self-employed Workers	17.8%	18.8%
5415 Computer Systems Design and Related Services	n	n
5614 Business Support 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's | < 5 yrs | Short OJT

2017 Average Wage:	\$36.74
2016 Estimated Employment:	230
2026 Projected Employment:	252
Growth Rate, 2016-2026:	9.6%
Annual Openings:	24

Industry	2016 Share	2026 Share
5415 Computer Systems Design and Related Services	21.7%	24.6%
334 Computer and Electronic Product Manufacturing	18.3%	15.1%
511 Publishing Industries (except Internet)	10.4%	9.5%
325 Chemical Manufacturing	n	n
333 Machinery Manufacturing	n	n
425 Wholesale Electronic Markets and Agents/Brokers	n	n

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's | none | Long OJT

2017 Average Wage:	\$28.33
2016 Estimated Employment:	963
2026 Projected Employment:	1,056
Growth Rate, 2016-2026:	9.7%
Annual Openings:	95

Industry	2016 Share	2026 Share
Self-employed Workers	60.1%	58.1%
511 Publishing Industries (except Internet)	4.2%	2.9%
5415 Computer Systems Design and Related Services	3.4%	3.8%
453 Miscellaneous Store Retailers	3.0%	3.2%
6113 Colleges and Universities	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's | none | none

2017 Average Wage:	\$23.38
2016 Estimated Employment:	150
2026 Projected Employment:	179
Growth Rate, 2016-2026:	19.3%
Annual Openings:	17

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	41.3%	43.0%
Self-employed Workers	19.3%	17.9%
5419 Other Professional, Scientific, and Technical Services	14.0%	16.8%
6111 Elementary and Secondary Schools	11.3%	10.1%
622 Hospitals	9.3%	7.8%
624 Social Assistance	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

2017 Average Wage:	\$41.49
2016 Estimated Employment:	196
2026 Projected Employment:	232
Growth Rate, 2016-2026:	18.4%
Annual Openings:	23

Industry	2016 Share	2026 Share
512 Motion Picture and Sound Recording Industries	69.4%	71.1%
Self-employed Workers	24.5%	23.3%
425 Wholesale Electronic Markets and Agents/Brokers	n	n
5416 Management and Technical Consulting Services	n	n
6113 Colleges and Universities	n	n
811 Repair and Maintenance	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

2017 Average Wage:	\$20.74
2016 Estimated Employment:	132
2026 Projected Employment:	150
Growth Rate, 2016-2026:	13.6%
Annual Openings:	15

Industry		2016 Share	2026 Share
532	Rental and Leasing Services	43.9%	44.7%
	Self-employed Workers	8.3%	8.0%
711	Performing Arts and Spectator Sports	8.3%	8.7%
238	Specialty Trade Contractors	n	n
423	Merchant Wholesalers, Durable Goods	n	n
6113	Colleges and Universities	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	Self-employed Workers	n	n
515	Broadcasting (except Internet)	n	n
	Local Government, Excluding Education	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	Self-employed Workers	n	n
512	Motion Picture and Sound Recording Industries	n	n
6113	Colleges and Universities	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

2017 Average Wage:	\$16.96
2016 Estimated Employment:	465
2026 Projected Employment:	395
Growth Rate, 2016-2026:	-15.1%
Annual Openings:	26

Industry		2016 Share	2026 Share
	Self-employed Workers	64.7%	84.8%
5419	Other Professional, Scientific, and Technical Services	27.7%	7.1%
511	Publishing Industries (except Internet)	3.0%	2.3%
441	Motor Vehicle and Parts Dealers	n	n
454	Nonstore Retailers	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's | none | none

2017 Average Wage:	\$19.20
2016 Estimated Employment:	209
2026 Projected Employment:	207
Growth Rate, 2016-2026:	-1.0%
Annual Openings:	19

Industry	2016 Share	2026 Share
515 Broadcasting (except Internet)	50.7%	47.3%
Local Government, Excluding Education	28.2%	30.0%
Self-employed Workers	13.4%	15.0%
6113 Colleges and Universities	5.3%	5.8%
511 Publishing Industries (except Internet)	n	n
512 Motion Picture and Sound Recording Industries	n	n

27-4032 Film and Video Editors



Edit motion picture soundtracks, film, and video. *Examples: Cue Selector; Video Tape Duplicator*

Training Category: Bachelor's | none | none

2017 Average Wage:	\$32.67
2016 Estimated Employment:	58
2026 Projected Employment:	69
Growth Rate, 2016-2026:	19.0%
Annual Openings:	7

Industry	2016 Share	2026 Share
512 Motion Picture and Sound Recording Industries	63.8%	68.1%
Self-employed Workers	13.8%	13.0%
515 Broadcasting (except Internet)	n	n
517 Telecommunications	n	n
5416 Management and Technical Consulting Services	n	n
Local Government, Excluding Education	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

2017 Average Wage:	\$21.38
2016 Estimated Employment:	56
2026 Projected Employment:	53
Growth Rate, 2016-2026:	-5.4%
Annual Openings:	5

Industry	2016 Share	2026 Share
6113 Colleges and Universities	67.9%	71.7%
Federal Government, Excluding Post Office	8.9%	9.4%
Self-employed Workers	7.1%	7.6%
334 Computer and Electronic Product Manufacturing	n	n
5419 Other Professional, Scientific, and Technical Services	n	n
623 Nursing and Residential Care Facilities	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

2017 Average Wage:	\$44.01
2016 Estimated Employment:	121
2026 Projected Employment:	131
Growth Rate, 2016-2026:	8.3%
Annual Openings:	4

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	72.7%	71.8%
Self-employed Workers	27.3%	28.2%

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

2017 Average Wage:	\$108.77
2016 Estimated Employment:	599
2026 Projected Employment:	690
Growth Rate, 2016-2026:	15.2%
Annual Openings:	26

Industry		2016 Share	2026 Share
621	Ambulatory Health Care Services	82.1%	82.0%
	Self-employed Workers	17.4%	17.5%
5613	Employment Services	n	n
	State Government, excl. 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/Residency

2017 Average Wage:	\$146.06
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 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/Residency

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 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/Residency

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 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/Residency

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
Federal Government, Excluding Post Office	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's | none | Intern/Residency

2017 Average Wage:	\$30.24
2016 Estimated Employment:	272
2026 Projected Employment:	309
Growth Rate, 2016-2026:	13.6%
Annual Openings:	21

Industry	2016 Share	2026 Share
622 Hospitals	44.5%	41.8%
621 Ambulatory Health Care Services	23.2%	26.2%
623 Nursing and Residential Care Facilities	6.6%	6.5%
Self-employed Workers	5.5%	5.5%
722 Food Services and Drinking Places	4.8%	4.9%
624 Social Assistance	4.0%	4.5%

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

2017 Average Wage:	\$61.44
2016 Estimated Employment:	173
2026 Projected Employment:	199
Growth Rate, 2016-2026:	15.0%
Annual Openings:	8

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	91.3%	91.5%
Self-employed Workers	7.5%	7.5%
Federal Government, Excluding Post Office	1.2%	1.0%

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

2017 Average Wage:	\$63.23
2016 Estimated Employment:	1,110
2026 Projected Employment:	1,162
Growth Rate, 2016-2026:	4.7%
Annual Openings:	53

Industry	2016 Share	2026 Share
446 Health and Personal Care Stores	50.6%	49.9%
622 Hospitals	24.2%	24.5%
452 General Merchandise Stores	9.7%	9.9%
445 Food and Beverage Stores	6.0%	5.6%
621 Ambulatory Health Care Services	3.1%	3.8%
5613 Employment Services	n	n

29-1061 Anesthesiologists



Administer anesthetics during surgery or other medical procedures.

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

2017 Average Wage:	\$140.66
2016 Estimated Employment:	172
2026 Projected Employment:	192
Growth Rate, 2016-2026:	11.6%
Annual Openings:	7

Industry		2016 Share	2026 Share
621	Ambulatory Health Care Services	90.1%	92.7%
	Self-employed Workers	7.0%	4.7%
622	Hospitals	2.9%	2.6%

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/Residency

2017 Average Wage:	\$116.23
2016 Estimated Employment:	823
2026 Projected Employment:	919
Growth Rate, 2016-2026:	11.7%
Annual Openings:	33

Industry		2016 Share	2026 Share
621	Ambulatory Health Care Services	76.1%	79.3%
622	Hospitals	14.1%	13.2%
	Self-employed Workers	6.1%	4.1%
551	Management of Companies and Enterprises	n	n
5613	Employment Services	n	n
6113	Colleges and Universities	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/Residency

2017 Average Wage:	\$129.12
2016 Estimated Employment:	215
2026 Projected Employment:	237
Growth Rate, 2016-2026:	10.2%
Annual Openings:	7

Industry		2016 Share	2026 Share
621	Ambulatory Health Care Services	63.7%	67.1%
622	Hospitals	29.8%	28.7%
	Self-employed Workers	6.5%	4.2%

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/Residency

2017 Average Wage:	\$132.98
2016 Estimated Employment:	134
2026 Projected Employment:	152
Growth Rate, 2016-2026:	13.4%
Annual Openings:	6

Industry		2016 Share	2026 Share
621	Ambulatory Health Care Services	91.0%	93.4%
	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/Residency

2017 Average Wage:	\$102.61
2016 Estimated Employment:	170
2026 Projected Employment:	190
Growth Rate, 2016-2026:	11.8%
Annual Openings:	7

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	78.2%	81.1%
622 Hospitals	15.3%	14.7%
Self-employed Workers	6.5%	4.2%

29-1066 Psychiatrists



Diagnose, treat, and help prevent disorders of the mind.

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

2017 Average Wage:	\$100.74
2016 Estimated Employment:	83
2026 Projected Employment:	94
Growth Rate, 2016-2026:	13.3%
Annual Openings:	3

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	69.9%	72.3%
622 Hospitals	13.3%	11.7%
623 Nursing and Residential Care Facilities	6.0%	6.4%
Self-employed Workers	4.8%	3.2%
6113 Colleges and Universities	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/Residency

2017 Average Wage:	\$146.33
2016 Estimated Employment:	377
2026 Projected Employment:	418
Growth Rate, 2016-2026:	10.9%
Annual Openings:	14

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	78.8%	81.6%
622 Hospitals	14.6%	13.9%
Self-employed Workers	6.6%	4.6%

29-1069 Physicians and Surgeons, All Other



All physicians and surgeons not listed separately.

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

2017 Average Wage:	\$133.96
2016 Estimated Employment:	1,933
2026 Projected Employment:	2,137
Growth Rate, 2016-2026:	10.6%
Annual Openings:	72

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	65.2%	68.4%
622 Hospitals	25.9%	24.7%
Self-employed Workers	5.4%	3.7%
Federal Government, Excluding Post Office	3.1%	2.9%
5611 Office Administrative Services	n	n
623 Nursing and Residential Care Facilities	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: Master's | none | none

2017 Average Wage:	\$55.44
2016 Estimated Employment:	607
2026 Projected Employment:	825
Growth Rate, 2016-2026:	35.9%
Annual Openings:	59

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	78.9%	81.0%
622 Hospitals	19.8%	18.2%
6113 Colleges and Universities	n	n
Local Government, Excluding Education	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/Residency

2017 Average Wage:	\$102.38
2016 Estimated Employment:	29
2026 Projected Employment:	31
Growth Rate, 2016-2026:	6.9%
Annual Openings:	2

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	72.4%	74.2%
622 Hospitals	13.8%	12.9%
Self-employed Workers	6.9%	6.5%
Federal Government, Excluding Post Office	6.9%	6.5%

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: Master's | none | none

2017 Average Wage:	\$39.09
2016 Estimated Employment:	1,191
2026 Projected Employment:	1,422
Growth Rate, 2016-2026:	19.4%
Annual Openings:	86

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	35.9%	40.6%
623 Nursing and Residential Care Facilities	22.6%	19.8%
622 Hospitals	21.4%	20.0%
6111 Elementary and Secondary Schools	10.8%	9.1%
Self-employed Workers	5.7%	7.0%
624 Social Assistance	1.9%	1.9%

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

2017 Average Wage:	\$39.63
2016 Estimated Employment:	1,627
2026 Projected Employment:	2,004
Growth Rate, 2016-2026:	23.2%
Annual Openings:	111

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	48.3%	52.5%
622 Hospitals	31.4%	27.9%
623 Nursing and Residential Care Facilities	11.5%	9.7%
Self-employed Workers	6.2%	7.5%
624 Social Assistance	0.8%	0.8%
6111 Elementary and Secondary Schools	0.6%	0.5%

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

2017 Average Wage:	\$44.08
2016 Estimated Employment:	136
2026 Projected Employment:	149
Growth Rate, 2016-2026:	9.6%
Annual Openings:	8

Industry	2016 Share	2026 Share
622 Hospitals	77.2%	75.2%
621 Ambulatory Health Care Services	16.9%	18.1%
Self-employed Workers	n	n
6113 Colleges and Universities	n	n

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's | none | none

2017 Average Wage:	\$21.72
2016 Estimated Employment:	98
2026 Projected Employment:	104
Growth Rate, 2016-2026:	6.1%
Annual Openings:	7

Industry	2016 Share	2026 Share
622 Hospitals	44.9%	40.4%
623 Nursing and Residential Care Facilities	22.5%	23.1%
621 Ambulatory Health Care Services	18.4%	23.1%
6113 Colleges and Universities	n	n
Federal Government, Excluding Post Office	n	n
State Government, excl. Education and Hospitals	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

2017 Average Wage:	\$31.27
2016 Estimated Employment:	415
2026 Projected Employment:	507
Growth Rate, 2016-2026:	22.2%
Annual Openings:	30

Industry	2016 Share	2026 Share
622 Hospitals	88.0%	89.0%
621 Ambulatory Health Care Services	3.1%	3.6%
423 Merchant Wholesalers, Durable Goods	n	n
532 Rental and Leasing Services	n	n
623 Nursing and Residential Care Facilities	n	n
Federal Government, Excluding Post Office	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: Master's | none | Intern/Residency

2017 Average Wage:	\$36.95
2016 Estimated Employment:	623
2026 Projected Employment:	694
Growth Rate, 2016-2026:	11.4%
Annual Openings:	39

Industry	2016 Share	2026 Share
6111 Elementary and Secondary Schools	39.3%	35.7%
621 Ambulatory Health Care Services	17.8%	21.6%
623 Nursing and Residential Care Facilities	16.7%	15.7%
622 Hospitals	14.1%	14.3%
624 Social Assistance	4.5%	5.0%
Self-employed Workers	4.2%	4.3%

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's | none | none

2017 Average Wage:	\$24.99
2016 Estimated Employment:	77
2026 Projected Employment:	85
Growth Rate, 2016-2026:	10.4%
Annual Openings:	5

Industry	2016 Share	2026 Share
Self-employed Workers	49.4%	49.4%
622 Hospitals	37.7%	36.5%
624 Social Assistance	5.2%	5.9%
621 Ambulatory Health Care Services	3.9%	4.7%
623 Nursing and Residential Care Facilities	3.9%	3.5%

29-1129 Therapists, All Other



All therapists not listed separately. *Examples: Hydrotherapist; Music Therapist*

Training Category: Bachelor's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	46
2026 Projected Employment:	56
Growth Rate, 2016-2026:	21.7%
Annual Openings:	4

Industry	2016 Share	2026 Share
Self-employed Workers	47.8%	46.4%
621 Ambulatory Health Care Services	43.5%	46.4%
622 Hospitals	4.4%	3.6%
623 Nursing and Residential Care Facilities	4.4%	3.6%

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

2017 Average Wage:	\$50.78
2016 Estimated Employment:	455
2026 Projected Employment:	551
Growth Rate, 2016-2026:	21.1%
Annual Openings:	27

Industry	2016 Share	2026 Share
5419 Other Professional, Scientific, and Technical Services	86.4%	87.5%
Self-employed Workers	11.7%	10.7%
6113 Colleges and Universities	n	n
813 Membership Organizations	n	n
Federal Government, Excluding Post Office	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

2017 Average Wage:	\$33.71
2016 Estimated Employment:	13,393
2026 Projected Employment:	15,246
Growth Rate, 2016-2026:	13.8%
Annual Openings:	906

Industry	2016 Share	2026 Share
622 Hospitals	57.2%	55.6%
621 Ambulatory Health Care Services	21.2%	24.0%
623 Nursing and Residential Care Facilities	7.4%	7.0%
6111 Elementary and Secondary Schools	3.4%	3.0%
Local Government, Excluding Education	3.2%	3.0%
5613 Employment Services	1.5%	1.4%

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: Master's | none | none

2017 Average Wage:	\$77.24
2016 Estimated Employment:	226
2026 Projected Employment:	257
Growth Rate, 2016-2026:	13.7%
Annual Openings:	14

Industry		2016 Share	2026 Share
621	Ambulatory Health Care Services	69.5%	71.6%
622	Hospitals	27.4%	25.3%
	Self-employed Workers	2.2%	2.3%
	Federal Government, Excluding Post Office	0.9%	0.8%

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: Master's | none | none

2017 Average Wage:	\$48.64
2016 Estimated Employment:	50
2026 Projected Employment:	59
Growth Rate, 2016-2026:	18.0%
Annual Openings:	4

Industry		2016 Share	2026 Share
621	Ambulatory Health Care Services	92.0%	93.2%
622	Hospitals	8.0%	6.8%

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: Master's | none | none

2017 Average Wage:	\$53.18
2016 Estimated Employment:	1,006
2026 Projected Employment:	1,357
Growth Rate, 2016-2026:	34.9%
Annual Openings:	92

Industry		2016 Share	2026 Share
621	Ambulatory Health Care Services	74.3%	76.9%
622	Hospitals	17.5%	16.3%
6113	Colleges and Universities	3.8%	2.9%
624	Social Assistance	1.2%	1.1%
	Local Government, Excluding Education	1.0%	0.8%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	67
2026 Projected Employment:	78
Growth Rate, 2016-2026:	16.4%
Annual Openings:	4

Industry		2016 Share	2026 Share
446	Health and Personal Care Stores	41.8%	39.7%
621	Ambulatory Health Care Services	40.3%	43.6%
	Self-employed Workers	13.4%	12.8%
623	Nursing and Residential Care Facilities	3.0%	2.6%
622	Hospitals	1.5%	1.3%

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: Master's | none | none

2017 Average Wage:	\$28.62
2016 Estimated Employment:	261
2026 Projected Employment:	299
Growth Rate, 2016-2026:	14.6%
Annual Openings:	18

Industry	2016 Share	2026 Share
622 Hospitals	33.0%	30.4%
621 Ambulatory Health Care Services	31.0%	34.8%
Self-employed Workers	28.0%	27.8%
Federal Government, Excluding Post Office	3.5%	3.0%
445 Food and Beverage Stores	2.7%	2.3%
6113 Colleges and Universities	0.8%	0.7%

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's | none | none

2017 Average Wage:	\$32.69
2016 Estimated Employment:	576
2026 Projected Employment:	611
Growth Rate, 2016-2026:	6.1%
Annual Openings:	40

Industry	2016 Share	2026 Share
622 Hospitals	85.9%	85.4%
6113 Colleges and Universities	7.8%	7.7%
621 Ambulatory Health Care Services	4.2%	4.8%
Federal Government, Excluding Post Office	2.1%	2.0%

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

2017 Average Wage:	\$21.23
2016 Estimated Employment:	290
2026 Projected Employment:	313
Growth Rate, 2016-2026:	7.9%
Annual Openings:	20

Industry	2016 Share	2026 Share
622 Hospitals	79.0%	77.0%
621 Ambulatory Health Care Services	17.2%	18.9%
623 Nursing and Residential Care Facilities	1.7%	1.9%
6113 Colleges and Universities	1.4%	1.6%
Federal Government, Excluding Post Office	0.7%	0.6%

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

2017 Average Wage:	\$37.74
2016 Estimated Employment:	1,263
2026 Projected Employment:	1,448
Growth Rate, 2016-2026:	14.7%
Annual Openings:	97

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	98.7%	98.8%
5613 Employment Services	n	n
Self-employed Workers	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

2017 Average Wage:	\$31.90
2016 Estimated Employment:	181
2026 Projected Employment:	196
Growth Rate, 2016-2026:	8.3%
Annual Openings:	12

Industry		2016 Share	2026 Share
622	Hospitals	84.0%	82.7%
621	Ambulatory Health Care Services	15.5%	16.8%

29-2032 Diagnostic Medical Sonographers



Produce ultrasonic recordings of internal organs for use by physicians. *Example: Ultrasonic Tester*

Training Category: Associate | none | none

2017 Average Wage:	\$37.58
2016 Estimated Employment:	210
2026 Projected Employment:	250
Growth Rate, 2016-2026:	19.1%
Annual Openings:	16

Industry		2016 Share	2026 Share
622	Hospitals	75.7%	73.2%
621	Ambulatory Health Care Services	23.8%	26.4%

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

2017 Average Wage:	\$37.53
2016 Estimated Employment:	61
2026 Projected Employment:	65
Growth Rate, 2016-2026:	6.6%
Annual Openings:	4

Industry		2016 Share	2026 Share
622	Hospitals	88.5%	87.7%
621	Ambulatory Health Care Services	11.5%	12.3%

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

2017 Average Wage:	\$30.32
2016 Estimated Employment:	764
2026 Projected Employment:	825
Growth Rate, 2016-2026:	8.0%
Annual Openings:	46

Industry		2016 Share	2026 Share
622	Hospitals	79.1%	77.1%
621	Ambulatory Health Care Services	18.3%	20.4%
	Federal Government, Excluding Post Office	1.6%	1.5%
	Self-employed Workers	n	n
6113	Colleges and Universities	n	n

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

2017 Average Wage:	\$35.39
2016 Estimated Employment:	173
2026 Projected Employment:	193
Growth Rate, 2016-2026:	11.6%
Annual Openings:	12

Industry	2016 Share	2026 Share
622 Hospitals	60.7%	57.5%
621 Ambulatory Health Care Services	38.2%	41.5%
Self-employed Workers	n	n
6113 Colleges and Universities	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

2017 Average Wage:	\$18.68
2016 Estimated Employment:	1,236
2026 Projected Employment:	1,395
Growth Rate, 2016-2026:	12.9%
Annual Openings:	93

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	60.6%	63.4%
Local Government, Excluding Education	22.9%	21.4%
622 Hospitals	15.7%	14.5%
6113 Colleges and Universities	n	n
713 Amusement, Gambling, and Recreation	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

2017 Average Wage:	\$15.01
2016 Estimated Employment:	76
2026 Projected Employment:	82
Growth Rate, 2016-2026:	7.9%
Annual Openings:	8

Industry	2016 Share	2026 Share
622 Hospitals	89.5%	89.0%
623 Nursing and Residential Care Facilities	5.3%	4.9%
624 Social Assistance	2.6%	3.7%
State Government, excl. Education and Hospitals	1.3%	1.2%
Local Government, Excluding Education	1.3%	1.2%

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

2017 Average Wage:	\$15.26
2016 Estimated Employment:	1,471
2026 Projected Employment:	1,642
Growth Rate, 2016-2026:	11.6%
Annual Openings:	136

Industry	2016 Share	2026 Share
446 Health and Personal Care Stores	55.6%	56.7%
622 Hospitals	17.3%	16.4%
452 General Merchandise Stores	12.2%	11.9%
445 Food and Beverage Stores	7.3%	7.0%
621 Ambulatory Health Care Services	4.6%	5.2%
Federal Government, Excluding Post Office	0.8%	0.7%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
423 Merchant Wholesalers, Durable Goods	n	n
621 Ambulatory Health Care Services	n	n
622 Hospitals	n	n
623 Nursing and Residential Care Facilities	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

2017 Average Wage:	\$24.47
2016 Estimated Employment:	439
2026 Projected Employment:	486
Growth Rate, 2016-2026:	10.7%
Annual Openings:	40

Industry	2016 Share	2026 Share
622 Hospitals	68.3%	65.0%
621 Ambulatory Health Care Services	31.4%	34.8%
Self-employed Workers	0.2%	0.2%

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

2017 Average Wage:	\$16.65
2016 Estimated Employment:	889
2026 Projected Employment:	1,088
Growth Rate, 2016-2026:	22.4%
Annual Openings:	96

Industry	2016 Share	2026 Share
5419 Other Professional, Scientific, and Technical Services	96.9%	97.2%
813 Membership Organizations	1.9%	1.8%
State Government, excl. Education and Hospitals	0.5%	0.4%
6113 Colleges and Universities	n	n
Federal Government, Excluding Post Office	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

2017 Average Wage:	\$20.31
2016 Estimated Employment:	310
2026 Projected Employment:	357
Growth Rate, 2016-2026:	15.2%
Annual Openings:	31

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	100.0%	100.0%

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

2017 Average Wage:	\$24.08
2016 Estimated Employment:	2,309
2026 Projected Employment:	2,539
Growth Rate, 2016-2026:	10.0%
Annual Openings:	193

Industry	2016 Share	2026 Share
623 Nursing and Residential Care Facilities	39.8%	39.0%
621 Ambulatory Health Care Services	26.1%	30.4%
622 Hospitals	13.1%	10.4%
Local Government, Excluding Education	13.1%	12.5%
State Government, excl. Education and Hospitals	2.0%	1.9%
5613 Employment Services	2.0%	2.0%

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

2017 Average Wage:	\$20.60
2016 Estimated Employment:	993
2026 Projected Employment:	1,114
Growth Rate, 2016-2026:	12.2%
Annual Openings:	74

Industry	2016 Share	2026 Share
622 Hospitals	44.8%	42.4%
621 Ambulatory Health Care Services	28.8%	30.8%
5611 Office Administrative Services	9.9%	11.0%
623 Nursing and Residential Care Facilities	5.6%	5.4%
5614 Business Support Services	3.5%	3.3%
5412 Accounting and Bookkeeping Services	3.1%	3.1%

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

2017 Average Wage:	\$18.52
2016 Estimated Employment:	530
2026 Projected Employment:	594
Growth Rate, 2016-2026:	12.1%
Annual Openings:	46

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	55.3%	55.2%
446 Health and Personal Care Stores	30.0%	29.8%
452 General Merchandise Stores	11.5%	11.6%
Self-employed Workers	3.0%	3.2%

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: Master's | none | Intern/Residency

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
339 Miscellaneous Manufacturing	n	n
621 Ambulatory Health Care Services	n	n
622 Hospitals	n	n
Federal Government, Excluding Post Office	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 | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
446 Health and Personal Care Stores	n	n
452 General Merchandise Stores	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: Postsecondary | none | none

2017 Average Wage:	\$25.78
2016 Estimated Employment:	305
2026 Projected Employment:	346
Growth Rate, 2016-2026:	13.4%
Annual Openings:	24

Industry	2016 Share	2026 Share
622 Hospitals	56.7%	52.6%
621 Ambulatory Health Care Services	31.8%	36.4%
6113 Colleges and Universities	4.3%	4.1%
Federal Government, Excluding Post Office	2.0%	1.7%
Self-employed Workers	1.6%	1.7%
532 Rental and Leasing Services	1.6%	1.5%

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's | none | none

2017 Average Wage:	\$38.36
2016 Estimated Employment:	333
2026 Projected Employment:	361
Growth Rate, 2016-2026:	8.4%
Annual Openings:	21

Industry	2016 Share	2026 Share
Local Government, Excluding Education	12.3%	11.9%
Federal Government, Excluding Post Office	9.6%	9.1%
5611 Office Administrative Services	7.8%	8.9%
5416 Management and Technical Consulting Services	6.9%	8.0%
551 Management of Companies and Enterprises	6.9%	6.9%
6113 Colleges and Universities	5.7%	5.5%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
237 Heavy and Civil Engineering Construction	n	n
333 Machinery Manufacturing	n	n
5613 Employment Services	n	n
6113 Colleges and Universities	n	n
622 Hospitals	n	n
Local Government, Excluding Education	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's | none | none

2017 Average Wage:	\$48,781
2016 Estimated Employment:	161
2026 Projected Employment:	196
Growth Rate, 2016-2026:	21.7%
Annual Openings:	13

Industry	2016 Share	2026 Share
6113 Colleges and Universities	42.9%	44.4%
6111 Elementary and Secondary Schools	19.9%	19.4%
621 Ambulatory Health Care Services	19.3%	20.4%
622 Hospitals	11.2%	9.7%
Self-employed Workers	n	n
713 Amusement, Gambling, and Recreation	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: Master's | none | none

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
621 Ambulatory Health Care Services	n	n
622 Hospitals	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

2017 Average Wage:	\$31.07
2016 Estimated Employment:	443
2026 Projected Employment:	498
Growth Rate, 2016-2026:	12.4%
Annual Openings:	29

Industry	2016 Share	2026 Share
622 Hospitals	51.2%	48.4%
621 Ambulatory Health Care Services	27.3%	30.1%
425 Wholesale Electronic Markets and Agents/Brokers	8.4%	7.8%
Self-employed Workers	5.2%	5.4%
5611 Office Administrative Services	n	n
624 Social Assistance	n	n

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: High School | none | Short OJT

2017 Average Wage:	\$13.79
2016 Estimated Employment:	1,296
2026 Projected Employment:	1,775
Growth Rate, 2016-2026:	37.0%
Annual Openings:	219

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	39.8%	45.2%
623 Nursing and Residential Care Facilities	20.8%	19.6%
624 Social Assistance	16.9%	17.5%
5613 Employment Services	13.4%	10.4%
622 Hospitals	6.6%	4.9%

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

2017 Average Wage:	\$17.65
2016 Estimated Employment:	373
2026 Projected Employment:	361
Growth Rate, 2016-2026:	-3.2%
Annual Openings:	39

Industry	2016 Share	2026 Share
622 Hospitals	93.8%	93.4%
State Government, excl. Education and Hospitals	5.4%	5.5%

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

2017 Average Wage:	\$15.09
2016 Estimated Employment:	9,159
2026 Projected Employment:	10,123
Growth Rate, 2016-2026:	10.5%
Annual Openings:	1,169

Industry	2016 Share	2026 Share
623 Nursing and Residential Care Facilities	38.8%	38.0%
622 Hospitals	24.5%	23.7%
Local Government, Excluding Education	15.9%	15.2%
621 Ambulatory Health Care Services	8.4%	10.3%
5613 Employment Services	5.2%	5.1%
State Government, excl. Education and Hospitals	2.6%	2.4%

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

2017 Average Wage:	\$15.12
2016 Estimated Employment:	112
2026 Projected Employment:	119
Growth Rate, 2016-2026:	6.3%
Annual Openings:	14

Industry	2016 Share	2026 Share
622 Hospitals	95.5%	95.8%
621 Ambulatory Health Care Services	n	n
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

2017 Average Wage:	\$26.87
2016 Estimated Employment:	189
2026 Projected Employment:	215
Growth Rate, 2016-2026:	13.8%
Annual Openings:	27

Industry	2016 Share	2026 Share
622 Hospitals	33.3%	33.0%
623 Nursing and Residential Care Facilities	25.9%	25.6%
6111 Elementary and Secondary Schools	20.6%	18.6%
621 Ambulatory Health Care Services	13.2%	15.8%
624 Social Assistance	2.1%	2.3%
Local Government, Excluding Education	2.1%	1.9%

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

2017 Average Wage:	\$17.04
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
6111 Elementary and Secondary Schools	n	n
621 Ambulatory Health Care Services	n	n
622 Hospitals	n	n
623 Nursing and Residential Care Facilities	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

2017 Average Wage:	\$28.12
2016 Estimated Employment:	582
2026 Projected Employment:	725
Growth Rate, 2016-2026:	24.6%
Annual Openings:	91

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	49.7%	54.9%
623 Nursing and Residential Care Facilities	26.8%	24.3%
622 Hospitals	21.1%	18.5%
Local Government, Excluding Education	1.0%	0.8%
Self-employed Workers	0.5%	0.7%
624 Social Assistance	0.5%	0.6%

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

2017 Average Wage:	\$15.96
2016 Estimated Employment:	207
2026 Projected Employment:	243
Growth Rate, 2016-2026:	17.4%
Annual Openings:	31

Industry	2016 Share	2026 Share
622 Hospitals	44.4%	42.4%
621 Ambulatory Health Care Services	33.8%	37.9%
623 Nursing and Residential Care Facilities	16.9%	15.2%
Local Government, Excluding Education	4.4%	3.7%

31-9011 Massage Therapists



Massage customers for hygienic or remedial purposes. *Examples: Masseuse; Masseur; Rubber*

Training Category: Postsecondary | none | none

2017 Average Wage:	\$21.72
2016 Estimated Employment:	2,813
2026 Projected Employment:	3,301
Growth Rate, 2016-2026:	17.4%
Annual Openings:	359

Industry	2016 Share	2026 Share
Self-employed Workers	81.8%	79.5%
812 Personal and Laundry Services	9.9%	11.0%
621 Ambulatory Health Care Services	6.3%	7.7%
721 Accommodation	1.2%	1.1%
6113 Colleges and Universities	n	n
622 Hospitals	n	n

31-9091 Dental Assistants



Assist dentist, set up patient and equipment, and keep records.

Training Category: Postsecondary | none | none

2017 Average Wage:	\$22.84
2016 Estimated Employment:	1,319
2026 Projected Employment:	1,512
Growth Rate, 2016-2026:	14.6%
Annual Openings:	172

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	98.6%	98.7%
Federal Government, Excluding Post Office	0.4%	0.3%
622 Hospitals	n	n
State Government, excl. Education and Hospitals	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

2017 Average Wage:	\$17.35
2016 Estimated Employment:	2,575
2026 Projected Employment:	3,197
Growth Rate, 2016-2026:	24.2%
Annual Openings:	366

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	76.1%	77.8%
622 Hospitals	20.2%	18.8%
623 Nursing and Residential Care Facilities	1.2%	1.3%
5613 Employment Services	0.7%	0.6%
Local Government, Excluding Education	0.4%	0.3%

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

2017 Average Wage:	\$17.45
2016 Estimated Employment:	279
2026 Projected Employment:	300
Growth Rate, 2016-2026:	7.5%
Annual Openings:	37

Industry	2016 Share	2026 Share
622 Hospitals	83.2%	81.7%
621 Ambulatory Health Care Services	10.4%	12.0%
Self-employed Workers	1.1%	1.0%
6112 Junior Colleges	n	n
6113 Colleges and Universities	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

2017 Average Wage:	\$19.61
2016 Estimated Employment:	259
2026 Projected Employment:	251
Growth Rate, 2016-2026:	-3.1%
Annual Openings:	29

Industry	2016 Share	2026 Share
622 Hospitals	40.9%	31.9%
5611 Office Administrative Services	28.6%	37.5%
621 Ambulatory Health Care Services	21.6%	19.5%
5614 Business Support Services	5.0%	6.4%
Self-employed Workers	3.9%	4.8%

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

2017 Average Wage:	\$13.96
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 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

2017 Average Wage:	\$12.74
2016 Estimated Employment:	288
2026 Projected Employment:	351
Growth Rate, 2016-2026:	21.9%
Annual Openings:	54

Industry	2016 Share	2026 Share
5419 Other Professional, Scientific, and Technical Services	94.1%	94.6%
6113 Colleges and Universities	4.2%	3.7%
812 Personal and Laundry Services	n	n
813 Membership Organizations	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

2017 Average Wage:	\$18.93
2016 Estimated Employment:	700
2026 Projected Employment:	829
Growth Rate, 2016-2026:	18.4%
Annual Openings:	90

Industry	2016 Share	2026 Share
622 Hospitals	50.7%	46.3%
621 Ambulatory Health Care Services	46.7%	51.3%
Self-employed Workers	0.6%	0.6%
5611 Office Administrative Services	n	n
5613 Employment Services	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

2017 Average Wage:	\$17.09
2016 Estimated Employment:	290
2026 Projected Employment:	319
Growth Rate, 2016-2026:	10.0%
Annual Openings:	40

Industry	2016 Share	2026 Share
622 Hospitals	31.4%	30.1%
621 Ambulatory Health Care Services	22.1%	24.8%
623 Nursing and Residential Care Facilities	18.3%	18.2%
Federal Government, Excluding Post Office	13.8%	12.5%
6111 Elementary and Secondary Schools	10.3%	9.4%
Local Government, Excluding Education	1.7%	1.6%

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 | none

2017 Average Wage:	\$29.39
2016 Estimated Employment:	101
2026 Projected Employment:	93
Growth Rate, 2016-2026:	-7.9%
Annual Openings:	5

Industry	2016 Share	2026 Share
Local Government, Excluding Education	57.4%	58.1%
State Government, excl. Education and Hospitals	31.7%	30.1%
Federal Government, Excluding Post Office	10.9%	11.8%

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

2017 Average Wage:	\$40.02
2016 Estimated Employment:	469
2026 Projected Employment:	491
Growth Rate, 2016-2026:	4.7%
Annual Openings:	30

Industry	2016 Share	2026 Share
Local Government, Excluding Education	88.7%	89.2%
State Government, excl. Education and Hospitals	5.5%	5.3%
Federal Government, Excluding Post Office	3.2%	3.1%
6113 Colleges and Universities	2.6%	2.4%

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

2017 Average Wage:	\$34.57
2016 Estimated Employment:	368
2026 Projected Employment:	387
Growth Rate, 2016-2026:	5.2%
Annual Openings:	27

Industry	2016 Share	2026 Share
Local Government, Excluding Education	96.5%	96.6%
State Government, excl. Education and Hospitals	2.7%	2.6%
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

2017 Average Wage:	\$31.05
2016 Estimated Employment:	251
2026 Projected Employment:	256
Growth Rate, 2016-2026:	2.0%
Annual Openings:	25

Industry	2016 Share	2026 Share
5616 Investigation and Security Services	37.5%	39.8%
452 General Merchandise Stores	12.0%	11.3%
Federal Government, Excluding Post Office	7.2%	6.6%
622 Hospitals	5.6%	5.5%
221 Utilities	n	n
713 Amusement, Gambling, and Recreation	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

2017 Average Wage:	\$21.96
2016 Estimated Employment:	1,746
2026 Projected Employment:	1,838
Growth Rate, 2016-2026:	5.3%
Annual Openings:	125

Industry	2016 Share	2026 Share
Local Government, Excluding Education	93.6%	93.6%
5619 Other Support Services	4.4%	4.5%
State Government, excl. Education and Hospitals	1.9%	1.9%

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

2017 Average Wage:	\$28.43
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	69.0%	68.9%
Local Government, Excluding Education	31.0%	31.2%

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: High School | < 5 yrs | Moderate OJT

2017 Average Wage:	\$28.43
2016 Estimated Employment:	201
2026 Projected Employment:	246
Growth Rate, 2016-2026:	22.4%
Annual Openings:	27

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	100.0%	100.0%

33-3011 Bailiffs



Maintain order in courts of law. *Examples: Court Officer; Sergeant at Arms*

Training Category: High School | none | Moderate OJT

2017 Average Wage:	\$12.53
2016 Estimated Employment:	91
2026 Projected Employment:	88
Growth Rate, 2016-2026:	-3.3%
Annual Openings:	7

Industry	2016 Share	2026 Share
Local Government, Excluding 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

2017 Average Wage:	\$21.85
2016 Estimated Employment:	1,086
2026 Projected Employment:	997
Growth Rate, 2016-2026:	-8.2%
Annual Openings:	75

Industry	2016 Share	2026 Share
Local Government, Excluding Education	51.5%	51.8%
State Government, excl. Education and Hospitals	37.7%	36.4%
Federal Government, Excluding Post Office	10.9%	11.8%

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

2017 Average Wage:	\$38.07
2016 Estimated Employment:	354
2026 Projected Employment:	365
Growth Rate, 2016-2026:	3.1%
Annual Openings:	24

Industry	2016 Share	2026 Share
Local Government, Excluding Education	50.3%	51.5%
State Government, excl. Education and Hospitals	31.6%	31.0%
Federal Government, Excluding Post Office	18.1%	17.5%

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's | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	49
2026 Projected Employment:	50
Growth Rate, 2016-2026:	2.0%
Annual Openings:	5

Industry	2016 Share	2026 Share
State Government, excl. 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

2017 Average Wage:	\$15.35
2016 Estimated Employment:	93
2026 Projected Employment:	58
Growth Rate, 2016-2026:	-37.6%
Annual Openings:	3

Industry		2016 Share	2026 Share
	Local Government, Excluding Education	52.7%	53.5%
6113	Colleges and Universities	47.3%	46.6%

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

2017 Average Wage:	\$27.14
2016 Estimated Employment:	2,859
2026 Projected Employment:	2,997
Growth Rate, 2016-2026:	4.8%
Annual Openings:	199

Industry		2016 Share	2026 Share
	Local Government, Excluding Education	83.6%	84.0%
	State Government, excl. Education and Hospitals	13.3%	12.9%
6113	Colleges and Universities	2.6%	2.6%
	Federal Government, Excluding Post Office	0.5%	0.5%

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

2017 Average Wage:	\$17.81
2016 Estimated Employment:	67
2026 Projected Employment:	72
Growth Rate, 2016-2026:	7.5%
Annual Openings:	7

Industry		2016 Share	2026 Share
	Local Government, Excluding Education	91.0%	90.3%
813	Membership Organizations	9.0%	9.7%

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

2017 Average Wage:	\$22.14
2016 Estimated Employment:	246
2026 Projected Employment:	274
Growth Rate, 2016-2026:	11.4%
Annual Openings:	27

Industry		2016 Share	2026 Share
5616	Investigation and Security Services	57.3%	58.4%
	Self-employed Workers	27.6%	27.0%
452	General Merchandise Stores	4.9%	4.4%
5415	Computer Systems Design and Related Services	4.1%	4.7%
5614	Business Support Services	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

2017 Average Wage:	\$16.49
2016 Estimated Employment:	2,761
2026 Projected Employment:	2,844
Growth Rate, 2016-2026:	3.0%
Annual Openings:	372

Industry	2016 Share	2026 Share
5616 Investigation and Security Services	46.0%	48.3%
722 Food Services and Drinking Places	15.0%	14.2%
622 Hospitals	8.4%	8.1%
6113 Colleges and Universities	3.7%	3.6%
452 General Merchandise Stores	2.0%	1.8%
221 Utilities	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

2017 Average Wage:	\$14.54
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
237 Heavy and Civil Engineering Construction	n	n
5619 Other Support Services	n	n
6111 Elementary and Secondary Schools	n	n
Local Government, Excluding Education	n	n

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

2017 Average Wage:	\$11.33
2016 Estimated Employment:	528
2026 Projected Employment:	557
Growth Rate, 2016-2026:	5.5%
Annual Openings:	135

Industry	2016 Share	2026 Share
713 Amusement, Gambling, and Recreation	30.5%	31.8%
813 Membership Organizations	29.0%	28.4%
Local Government, Excluding Education	17.6%	17.4%
State Government, excl. Education and Hospitals	12.3%	11.9%
6113 Colleges and Universities	9.3%	9.3%
6111 Elementary and Secondary Schools	1.0%	0.9%

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

2017 Average Wage:	\$21.34
2016 Estimated Employment:	125
2026 Projected Employment:	126
Growth Rate, 2016-2026:	0.8%
Annual Openings:	11

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	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

2017 Average Wage:	\$18.58
2016 Estimated Employment:	121
2026 Projected Employment:	132
Growth Rate, 2016-2026:	9.1%
Annual Openings:	32

Industry	2016 Share	2026 Share
6111 Elementary and Secondary Schools	20.7%	19.7%
452 General Merchandise Stores	16.5%	16.7%
493 Warehousing and Storage	15.7%	18.2%
Local Government, Excluding Education	13.2%	12.9%
Federal Government, Excluding Post Office	9.1%	8.3%
State Government, excl. Education and Hospitals	8.3%	7.6%

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+ yrs | none

2017 Average Wage:	\$23.09
2016 Estimated Employment:	1,090
2026 Projected Employment:	1,201
Growth Rate, 2016-2026:	10.2%
Annual Openings:	152

Industry	2016 Share	2026 Share
722 Food Services and Drinking Places	65.9%	66.6%
721 Accommodation	9.2%	8.6%
713 Amusement, Gambling, and Recreation	6.2%	6.4%
Self-employed Workers	5.8%	5.7%
State Government, excl. Education and Hospitals	1.9%	1.8%
623 Nursing and Residential Care Facilities	1.8%	2.0%

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

2017 Average Wage:	\$18.97
2016 Estimated Employment:	3,593
2026 Projected Employment:	3,953
Growth Rate, 2016-2026:	10.0%
Annual Openings:	565

Industry	2016 Share	2026 Share
722 Food Services and Drinking Places	71.1%	72.3%
445 Food and Beverage Stores	5.8%	5.6%
6111 Elementary and Secondary Schools	3.8%	3.3%
623 Nursing and Residential Care Facilities	3.3%	3.3%
6113 Colleges and Universities	2.6%	2.5%
713 Amusement, Gambling, and Recreation	2.1%	2.1%

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

2017 Average Wage:	\$10.06
2016 Estimated Employment:	1,350
2026 Projected Employment:	1,295
Growth Rate, 2016-2026:	-4.1%
Annual Openings:	178

Industry	2016 Share	2026 Share
722 Food Services and Drinking Places	96.6%	96.4%
721 Accommodation	3.2%	3.4%
713 Amusement, Gambling, and Recreation	0.2%	0.2%

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

2017 Average Wage:	\$15.76
2016 Estimated Employment:	1,575
2026 Projected Employment:	1,711
Growth Rate, 2016-2026:	8.6%
Annual Openings:	241

Industry	2016 Share	2026 Share
623 Nursing and Residential Care Facilities	28.4%	30.1%
722 Food Services and Drinking Places	16.1%	19.1%
6111 Elementary and Secondary Schools	15.3%	12.9%
622 Hospitals	14.9%	14.6%
6113 Colleges and Universities	5.9%	5.6%
624 Social Assistance	5.9%	6.3%

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

2017 Average Wage:	\$13.66
2016 Estimated Employment:	5,695
2026 Projected Employment:	6,477
Growth Rate, 2016-2026:	13.7%
Annual Openings:	922

Industry	2016 Share	2026 Share
722 Food Services and Drinking Places	93.1%	93.5%
721 Accommodation	3.4%	3.1%
713 Amusement, Gambling, and Recreation	2.2%	2.2%
312 Beverage and Tobacco Product Manufacturing	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

2017 Average Wage:	\$10.38
2016 Estimated Employment:	3,288
2026 Projected Employment:	3,156
Growth Rate, 2016-2026:	-4.0%
Annual Openings:	434

Industry	2016 Share	2026 Share
722 Food Services and Drinking Places	94.0%	93.4%
447 Gasoline Stations	1.7%	1.8%
713 Amusement, Gambling, and Recreation	1.6%	1.9%
445 Food and Beverage Stores	1.2%	1.3%
6113 Colleges and Universities	0.6%	0.6%
623 Nursing and Residential Care Facilities	0.3%	0.4%

35-2019 Cooks, All Other



All cooks not listed separately.

Training Category: none | none | Moderate OJT

2017 Average Wage:	\$16.40
2016 Estimated Employment:	43
2026 Projected Employment:	49
Growth Rate, 2016-2026:	14.0%
Annual Openings:	8

Industry	2016 Share	2026 Share
722 Food Services and Drinking Places	76.7%	75.5%
5613 Employment Services	11.6%	12.2%
5416 Management and Technical Consulting Services	4.7%	4.1%
721 Accommodation	4.7%	4.1%
551 Management of Companies and Enterprises	2.3%	4.1%

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

2017 Average Wage:	\$11.08
2016 Estimated Employment:	3,233
2026 Projected Employment:	3,517
Growth Rate, 2016-2026:	8.8%
Annual Openings:	591

Industry	2016 Share	2026 Share
722 Food Services and Drinking Places	69.8%	70.4%
445 Food and Beverage Stores	10.9%	11.1%
Local Government, Excluding Education	6.6%	6.4%
622 Hospitals	2.4%	2.3%
721 Accommodation	2.2%	2.0%
6111 Elementary and Secondary Schools	1.8%	1.5%

35-3011 Bartenders



Mix and serve drinks to patrons, directly or through waitstaff. *Examples: Barkeeper; Taproom Attendant*

Training Category: none | none | Short OJT

2017 Average Wage:	\$11.07
2016 Estimated Employment:	3,684
2026 Projected Employment:	3,812
Growth Rate, 2016-2026:	3.5%
Annual Openings:	623

Industry	2016 Share	2026 Share
722 Food Services and Drinking Places	68.6%	68.5%
813 Membership Organizations	20.9%	20.6%
713 Amusement, Gambling, and Recreation	4.6%	4.9%
721 Accommodation	3.6%	3.6%
711 Performing Arts and Spectator Sports	0.7%	0.7%
6113 Colleges and Universities	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

2017 Average Wage:	\$10.22
2016 Estimated Employment:	13,023
2026 Projected Employment:	14,988
Growth Rate, 2016-2026:	15.1%
Annual Openings:	2,733

Industry	2016 Share	2026 Share
722 Food Services and Drinking Places	64.2%	67.1%
445 Food and Beverage Stores	17.9%	16.4%
6111 Elementary and Secondary Schools	3.8%	3.3%
713 Amusement, Gambling, and Recreation	2.4%	2.3%
447 Gasoline Stations	2.3%	2.2%
622 Hospitals	2.0%	1.8%

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

2017 Average Wage:	\$10.78
2016 Estimated Employment:	1,890
2026 Projected Employment:	1,952
Growth Rate, 2016-2026:	3.3%
Annual Openings:	418

Industry	2016 Share	2026 Share
722 Food Services and Drinking Places	45.1%	46.2%
6111 Elementary and Secondary Schools	18.8%	16.7%
713 Amusement, Gambling, and Recreation	11.9%	12.6%
512 Motion Picture and Sound Recording Industries	7.6%	7.8%
6113 Colleges and Universities	5.8%	5.9%
451 Sporting Goods, Hobby, Book, and Music Stores	2.1%	1.6%

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

2017 Average Wage:	\$12.53
2016 Estimated Employment:	12,531
2026 Projected Employment:	13,620
Growth Rate, 2016-2026:	8.7%
Annual Openings:	2,560

Industry	2016 Share	2026 Share
722 Food Services and Drinking Places	88.6%	88.5%
721 Accommodation	5.8%	5.4%
713 Amusement, Gambling, and Recreation	2.9%	3.0%
623 Nursing and Residential Care Facilities	1.6%	2.0%
312 Beverage and Tobacco Product Manufacturing	0.3%	0.4%

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

2017 Average Wage:	\$10.84
2016 Estimated Employment:	1,162
2026 Projected Employment:	1,296
Growth Rate, 2016-2026:	11.5%
Annual Openings:	192

Industry	2016 Share	2026 Share
623 Nursing and Residential Care Facilities	50.1%	53.1%
622 Hospitals	21.1%	20.0%
721 Accommodation	9.3%	7.4%
722 Food Services and Drinking Places	9.3%	9.5%
Local Government, Excluding Education	5.0%	4.7%
6111 Elementary and Secondary Schools	1.9%	1.8%

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

2017 Average Wage:	\$9.75
2016 Estimated Employment:	1,126
2026 Projected Employment:	1,226
Growth Rate, 2016-2026:	8.9%
Annual Openings:	208

Industry	2016 Share	2026 Share
722 Food Services and Drinking Places	68.3%	68.3%
721 Accommodation	13.3%	12.6%
623 Nursing and Residential Care Facilities	8.7%	9.6%
713 Amusement, Gambling, and Recreation	3.7%	3.8%
622 Hospitals	3.1%	3.0%
6113 Colleges and Universities	1.7%	1.6%

35-9021 Dishwashers



Clean dishes, kitchen, food preparation equipment, or utensils. *Examples: Kitchen Cleaner; Glass Washer; Pot Washer*

Training Category: none | none | Short OJT

2017 Average Wage:	\$9.74
2016 Estimated Employment:	2,539
2026 Projected Employment:	2,684
Growth Rate, 2016-2026:	5.7%
Annual Openings:	415

Industry	2016 Share	2026 Share
722 Food Services and Drinking Places	81.1%	80.6%
721 Accommodation	5.1%	5.0%
623 Nursing and Residential Care Facilities	4.2%	4.8%
713 Amusement, Gambling, and Recreation	3.0%	3.2%
6111 Elementary and Secondary Schools	2.5%	2.4%
6113 Colleges and Universities	1.0%	1.0%

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 | Short OJT

2017 Average Wage:	\$10.22
2016 Estimated Employment:	2,062
2026 Projected Employment:	2,234
Growth Rate, 2016-2026:	8.3%
Annual Openings:	499

Industry	2016 Share	2026 Share
722 Food Services and Drinking Places	92.5%	92.7%
721 Accommodation	4.2%	4.0%
622 Hospitals	1.3%	1.2%
6111 Elementary and Secondary Schools	0.9%	0.9%
623 Nursing and Residential Care Facilities	0.8%	0.9%
713 Amusement, Gambling, and Recreation	0.3%	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

2017 Average Wage:	\$10.42
2016 Estimated Employment:	94
2026 Projected Employment:	106
Growth Rate, 2016-2026:	12.8%
Annual Openings:	18

Industry	2016 Share	2026 Share
722 Food Services and Drinking Places	71.3%	70.8%
624 Social Assistance	17.0%	17.9%
623 Nursing and Residential Care Facilities	5.3%	5.7%
551 Management of Companies and Enterprises	3.2%	2.8%
6111 Elementary and Secondary Schools	3.2%	2.8%

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

2017 Average Wage:	\$19.53
2016 Estimated Employment:	1,034
2026 Projected Employment:	1,118
Growth Rate, 2016-2026:	8.1%
Annual Openings:	127

Industry	2016 Share	2026 Share
Self-employed Workers	26.3%	27.1%
5617 Services to Buildings and Dwellings	17.3%	17.3%
721 Accommodation	17.3%	16.6%
6111 Elementary and Secondary Schools	12.2%	11.5%
5612 Facilities Support Services	4.8%	5.6%
622 Hospitals	3.5%	3.4%

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

2017 Average Wage:	\$25.52
2016 Estimated Employment:	967
2026 Projected Employment:	1,060
Growth Rate, 2016-2026:	9.6%
Annual Openings:	103

Industry	2016 Share	2026 Share
Self-employed Workers	36.9%	37.6%
5617 Services to Buildings and Dwellings	35.4%	34.6%
713 Amusement, Gambling, and Recreation	10.6%	10.8%
531 Real Estate	4.6%	4.7%
Local Government, Excluding Education	4.2%	4.1%
721 Accommodation	2.3%	2.3%

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

2017 Average Wage:	\$14.13
2016 Estimated Employment:	10,388
2026 Projected Employment:	11,082
Growth Rate, 2016-2026:	6.7%
Annual Openings:	1,443

Industry	2016 Share	2026 Share
5617 Services to Buildings and Dwellings	31.7%	32.1%
6111 Elementary and Secondary Schools	15.5%	14.8%
6113 Colleges and Universities	5.3%	5.1%
813 Membership Organizations	5.0%	5.1%
Local Government, Excluding Education	4.0%	3.9%
622 Hospitals	3.9%	3.8%

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

2017 Average Wage:	\$11.23
2016 Estimated Employment:	5,807
2026 Projected Employment:	6,246
Growth Rate, 2016-2026:	7.6%
Annual Openings:	827

Industry	2016 Share	2026 Share
721 Accommodation	39.2%	37.9%
Self-employed Workers	10.8%	11.1%
622 Hospitals	9.2%	9.1%
623 Nursing and Residential Care Facilities	9.0%	9.5%
5617 Services to Buildings and Dwellings	7.3%	7.3%
814 Private Households	6.0%	5.5%

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

2017 Average Wage:	\$18.42
2016 Estimated Employment:	47
2026 Projected Employment:	54
Growth Rate, 2016-2026:	14.9%
Annual Openings:	7

Industry	2016 Share	2026 Share
562 Waste Management and Remediation Services	66.0%	68.5%
5617 Services to Buildings and Dwellings	17.0%	16.7%
622 Hospitals	10.6%	9.3%
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

2017 Average Wage:	\$16.06
2016 Estimated Employment:	251
2026 Projected Employment:	259
Growth Rate, 2016-2026:	3.2%
Annual Openings:	35

Industry	2016 Share	2026 Share
5617 Services to Buildings and Dwellings	94.4%	93.8%
Self-employed Workers	5.6%	6.2%

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

2017 Average Wage:	\$15.57
2016 Estimated Employment:	6,586
2026 Projected Employment:	7,170
Growth Rate, 2016-2026:	8.9%
Annual Openings:	870

Industry	2016 Share	2026 Share
5617 Services to Buildings and Dwellings	44.4%	43.8%
Self-employed Workers	19.5%	20.0%
713 Amusement, Gambling, and Recreation	11.6%	11.9%
721 Accommodation	4.9%	4.8%
Local Government, Excluding Education	4.7%	4.6%
531 Real Estate	3.4%	3.5%

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

2017 Average Wage:	\$19.92
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
111 Crop Production	n	n
5617 Services to Buildings and Dwellings	n	n
6113 Colleges and Universities	n	n

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

2017 Average Wage:	\$20.50
2016 Estimated Employment:	525
2026 Projected Employment:	574
Growth Rate, 2016-2026:	9.3%
Annual Openings:	70

Industry	2016 Share	2026 Share
5617 Services to Buildings and Dwellings	71.2%	70.0%
Self-employed Workers	20.4%	20.9%
113 Forestry and Logging	5.7%	6.5%
6113 Colleges and Universities	1.3%	1.2%
551 Management of Companies and Enterprises	n	n
Local Government, Excluding Education	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

2017 Average Wage:	\$17.83
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
4911 Postal Service	n	n
5617 Services to Buildings and Dwellings	n	n
721 Accommodation	n	n
813 Membership Organizations	n	n
State Government, excl. Education and Hospitals	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	Self-employed Workers	n	n
713	Amusement, Gambling, and Recreation	n	n

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

2017 Average Wage:	\$19.10
2016 Estimated Employment:	1,219
2026 Projected Employment:	1,380
Growth Rate, 2016-2026:	13.2%
Annual Openings:	136

Industry		2016 Share	2026 Share
	Self-employed Workers	23.5%	23.5%
713	Amusement, Gambling, and Recreation	14.4%	14.0%
624	Social Assistance	13.3%	14.1%
812	Personal and Laundry Services	11.3%	12.0%
623	Nursing and Residential Care Facilities	9.0%	9.3%
	State Government, excl. Education and Hospitals	5.5%	4.9%

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

2017 Average Wage:	\$19.50
2016 Estimated Employment:	144
2026 Projected Employment:	175
Growth Rate, 2016-2026:	21.5%
Annual Openings:	21

Industry		2016 Share	2026 Share
	Self-employed Workers	43.1%	38.9%
812	Personal and Laundry Services	34.0%	38.9%
813	Membership Organizations	11.1%	10.9%
112	Animal Production	4.9%	4.6%
453	Miscellaneous Store Retailers	n	n
	Local Government, Excluding Education	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

2017 Average Wage:	\$11.24
2016 Estimated Employment:	1,092
2026 Projected Employment:	1,407
Growth Rate, 2016-2026:	28.9%
Annual Openings:	218

Industry		2016 Share	2026 Share
812	Personal and Laundry Services	55.1%	58.6%
	Self-employed Workers	16.2%	15.1%
813	Membership Organizations	13.2%	11.9%
453	Miscellaneous Store Retailers	9.4%	8.8%
5419	Other Professional, Scientific, and Technical Services	3.9%	3.7%
115	Agriculture and Forestry Support Activities	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	Self-employed Workers	n	n
713	Amusement, Gambling, and Recreation	n	n

39-3012 Gaming and Sports Book Writers and Runners



Post information enabling patrons to wager on various races and sporting events. Assist in the operation of games such as keno and bingo. May operate random number generating equipment and announce the numbers for patrons. Receive, verify, and record patrons' wagers. Scan and process winning tickets presented by patrons and payout winnings for those wagers.

Training Category: High School | none | Short OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
713	Amusement, Gambling, and Recreation	100.0%	100.0%

39-3021 Motion Picture Projectionists



Set up and operate motion picture projection and related sound reproduction equipment.

Training Category: none | none | Short OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
512	Motion Picture and Sound Recording Industries	100.0%	100.0%

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

2017 Average Wage:	\$9.08
2016 Estimated Employment:	391
2026 Projected Employment:	422
Growth Rate, 2016-2026:	7.9%
Annual Openings:	101

Industry		2016 Share	2026 Share
512	Motion Picture and Sound Recording Industries	72.4%	71.8%
711	Performing Arts and Spectator Sports	14.3%	14.7%
531	Real Estate	11.0%	10.9%
487	Scenic and Sightseeing Transportation	1.0%	1.2%
712	Museums, Historical Sites, and Similar Institutions	1.0%	1.0%
713	Amusement, Gambling, and Recreation	0.3%	0.5%

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

2017 Average Wage:	\$10.19
2016 Estimated Employment:	1,470
2026 Projected Employment:	1,600
Growth Rate, 2016-2026:	8.8%
Annual Openings:	357

Industry	2016 Share	2026 Share
713 Amusement, Gambling, and Recreation	72.9%	73.7%
6113 Colleges and Universities	8.0%	7.6%
711 Performing Arts and Spectator Sports	7.5%	7.5%
Local Government, Excluding Education	4.0%	3.8%
State Government, excl. Education and Hospitals	2.2%	2.1%
512 Motion Picture and Sound Recording Industries	1.8%	1.8%

39-3092 Costume Attendants



Select, fit, and take care of costumes for cast members, and aid entertainers.

Training Category: High School | none | Short OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
6113 Colleges and Universities	100.0%	100.0%

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

2017 Average Wage:	\$10.39
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
6111 Elementary and Secondary Schools	n	n
6113 Colleges and Universities	n	n
622 Hospitals	n	n
713 Amusement, Gambling, and Recreation	n	n
721 Accommodation	n	n
812 Personal and Laundry Services	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
452 General Merchandise Stores	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

2017 Average Wage:	\$19.44
2016 Estimated Employment:	99
2026 Projected Employment:	101
Growth Rate, 2016-2026:	2.0%
Annual Openings:	15

Industry		2016 Share	2026 Share
812	Personal and Laundry Services	100.0%	100.0%

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

2017 Average Wage:	\$23.88
2016 Estimated Employment:	126
2026 Projected Employment:	131
Growth Rate, 2016-2026:	4.0%
Annual Openings:	15

Industry		2016 Share	2026 Share
812	Personal and Laundry Services	92.1%	92.4%
	Self-employed Workers	7.9%	7.6%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	461
2026 Projected Employment:	522
Growth Rate, 2016-2026:	13.2%
Annual Openings:	50

Industry		2016 Share	2026 Share
	Self-employed Workers	98.1%	98.1%
812	Personal and Laundry Services	1.3%	1.3%

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

2017 Average Wage:	\$13.94
2016 Estimated Employment:	3,213
2026 Projected Employment:	3,616
Growth Rate, 2016-2026:	12.5%
Annual Openings:	438

Industry		2016 Share	2026 Share
812	Personal and Laundry Services	54.8%	55.4%
	Self-employed Workers	39.3%	39.4%
452	General Merchandise Stores	3.0%	2.4%
446	Health and Personal Care Stores	1.4%	1.4%
721	Accommodation	0.8%	0.7%
623	Nursing and Residential Care Facilities	n	n

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

2017 Average Wage:	\$13.32
2016 Estimated Employment:	582
2026 Projected Employment:	659
Growth Rate, 2016-2026:	13.2%
Annual Openings:	77

Industry		2016 Share	2026 Share
812	Personal and Laundry Services	74.2%	74.5%
	Self-employed Workers	25.1%	24.7%
621	Ambulatory Health Care Services	n	n
721	Accommodation	n	n

39-5093 Shampooers



Shampoo and rinse hair.

Training Category: none | none | Short OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 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

2017 Average Wage:	\$14.38
2016 Estimated Employment:	480
2026 Projected Employment:	543
Growth Rate, 2016-2026:	13.1%
Annual Openings:	63

Industry		2016 Share	2026 Share
812	Personal and Laundry Services	62.1%	62.3%
	Self-employed Workers	25.0%	24.7%
621	Ambulatory Health Care Services	6.3%	6.6%
446	Health and Personal Care Stores	5.6%	5.5%
721	Accommodation	1.0%	0.9%

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

2017 Average Wage:	\$10.59
2016 Estimated Employment:	70
2026 Projected Employment:	74
Growth Rate, 2016-2026:	5.7%
Annual Openings:	9

Industry		2016 Share	2026 Share
721	Accommodation	81.4%	79.7%
488	Support Activities for Transportation	18.6%	20.3%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
622 Hospitals	n	n
721 Accommodation	n	n
813 Membership Organizations	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

2017 Average Wage:	\$14.39
2016 Estimated Employment:	209
2026 Projected Employment:	236
Growth Rate, 2016-2026:	12.9%
Annual Openings:	42

Industry	2016 Share	2026 Share
712 Museums, Historical Sites, and Similar Institutions	46.9%	49.2%
713 Amusement, Gambling, and Recreation	27.8%	27.5%
Self-employed Workers	10.5%	9.3%
487 Scenic and Sightseeing Transportation	6.7%	6.8%
State Government, excl. Education and Hospitals	4.3%	3.8%
312 Beverage and Tobacco Product Manufacturing	n	n

39-7012 Travel Guides



Plan, organize, and conduct long distance or sightseeing tours, travel or expeditions. May escort individuals or groups through places of interest such as industrial establishments, public buildings, and art galleries.

Training Category: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
5615 Travel Arrangement and Reservation Services	100.0%	100.0%

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

2017 Average Wage:	\$11.03
2016 Estimated Employment:	4,361
2026 Projected Employment:	4,672
Growth Rate, 2016-2026:	7.1%
Annual Openings:	680

Industry	2016 Share	2026 Share
624 Social Assistance	41.8%	42.6%
Self-employed Workers	25.9%	26.0%
813 Membership Organizations	7.0%	7.0%
713 Amusement, Gambling, and Recreation	6.9%	7.1%
6111 Elementary and Secondary Schools	6.0%	5.7%
814 Private Households	5.9%	5.4%

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: High School | none | Short OJT

2017 Average Wage:	\$12.36
2016 Estimated Employment:	7,756
2026 Projected Employment:	10,345
Growth Rate, 2016-2026:	33.4%
Annual Openings:	1,525

Industry	2016 Share	2026 Share
624 Social Assistance	50.2%	53.2%
623 Nursing and Residential Care Facilities	22.1%	21.3%
551 Management of Companies and Enterprises	11.9%	9.8%
621 Ambulatory Health Care Services	6.9%	7.6%
Self-employed Workers	3.1%	3.3%
813 Membership Organizations	2.4%	2.1%

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

2017 Average Wage:	\$17.00
2016 Estimated Employment:	2,205
2026 Projected Employment:	2,456
Growth Rate, 2016-2026:	11.4%
Annual Openings:	410

Industry	2016 Share	2026 Share
713 Amusement, Gambling, and Recreation	48.7%	48.1%
6116 Other Schools and Instruction	14.6%	17.0%
Self-employed Workers	9.6%	9.5%
813 Membership Organizations	9.3%	8.5%
State Government, excl. Education and Hospitals	9.2%	8.4%
6113 Colleges and Universities	2.4%	2.3%

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

2017 Average Wage:	\$14.74
2016 Estimated Employment:	1,796
2026 Projected Employment:	1,930
Growth Rate, 2016-2026:	7.5%
Annual Openings:	321

Industry	2016 Share	2026 Share
Local Government, Excluding Education	28.5%	25.2%
623 Nursing and Residential Care Facilities	20.9%	21.9%
813 Membership Organizations	18.2%	18.2%
713 Amusement, Gambling, and Recreation	7.4%	8.0%
Self-employed Workers	6.1%	6.2%
721 Accommodation	5.5%	5.7%

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

2017 Average Wage:	\$15.65
2016 Estimated Employment:	424
2026 Projected Employment:	472
Growth Rate, 2016-2026:	11.3%
Annual Openings:	79

Industry	2016 Share	2026 Share
624 Social Assistance	30.9%	32.4%
623 Nursing and Residential Care Facilities	25.5%	25.6%
6113 Colleges and Universities	24.5%	23.1%
6111 Elementary and Secondary Schools	12.3%	11.7%
6112 Junior Colleges	n	n
621 Ambulatory Health Care Services	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

2017 Average Wage:	\$9.98
2016 Estimated Employment:	275
2026 Projected Employment:	315
Growth Rate, 2016-2026:	14.6%
Annual Openings:	47

Industry	2016 Share	2026 Share
812 Personal and Laundry Services	65.8%	67.0%
Self-employed Workers	13.8%	14.0%
814 Private Households	7.6%	6.4%
621 Ambulatory Health Care Services	n	n
623 Nursing and Residential Care Facilities	n	n
813 Membership Organizations	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

2017 Average Wage:	\$23.78
2016 Estimated Employment:	8,838
2026 Projected Employment:	9,218
Growth Rate, 2016-2026:	4.3%
Annual Openings:	979

Industry	2016 Share	2026 Share
Self-employed Workers	20.3%	19.7%
452 General Merchandise Stores	14.9%	15.6%
444 Building Material and Garden Supply Stores	9.6%	9.7%
445 Food and Beverage Stores	8.9%	9.0%
448 Clothing and Clothing Accessories Stores	8.2%	7.5%
441 Motor Vehicle and Parts Dealers	7.7%	7.9%

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

2017 Average Wage:	\$51.68
2016 Estimated Employment:	2,778
2026 Projected Employment:	2,964
Growth Rate, 2016-2026:	6.7%
Annual Openings:	275

Industry	2016 Share	2026 Share
Self-employed Workers	33.4%	32.3%
425 Wholesale Electronic Markets and Agents/Brokers	12.2%	12.2%
423 Merchant Wholesalers, Durable Goods	9.0%	9.7%
424 Merchant Wholesalers, Nondurable Goods	8.9%	9.4%
523 Financial Investment and Related Activities	4.6%	4.6%
5415 Computer Systems Design and Related Services	3.7%	4.3%

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

2017 Average Wage:	\$10.14
2016 Estimated Employment:	22,658
2026 Projected Employment:	22,151
Growth Rate, 2016-2026:	-2.2%
Annual Openings:	4,106

Industry	2016 Share	2026 Share
445 Food and Beverage Stores	33.1%	32.6%
452 General Merchandise Stores	16.2%	16.0%
447 Gasoline Stations	12.9%	13.5%
722 Food Services and Drinking Places	6.1%	6.5%
State Government, excl. Education and Hospitals	5.2%	5.0%
446 Health and Personal Care Stores	4.6%	4.8%

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

2017 Average Wage:	\$16.12
2016 Estimated Employment:	1,928
2026 Projected Employment:	2,060
Growth Rate, 2016-2026:	6.9%
Annual Openings:	264

Industry	2016 Share	2026 Share
532 Rental and Leasing Services	22.7%	21.7%
441 Motor Vehicle and Parts Dealers	22.2%	22.9%
811 Repair and Maintenance	13.5%	14.0%
812 Personal and Laundry Services	11.7%	10.9%
531 Real Estate	9.2%	9.3%
423 Merchant Wholesalers, Durable Goods	5.5%	5.9%

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

2017 Average Wage:	\$15.71
2016 Estimated Employment:	1,557
2026 Projected Employment:	1,638
Growth Rate, 2016-2026:	5.2%
Annual Openings:	204

Industry	2016 Share	2026 Share
441 Motor Vehicle and Parts Dealers	82.1%	80.7%
423 Merchant Wholesalers, Durable Goods	7.3%	7.9%
444 Building Material and Garden Supply Stores	6.2%	6.8%
811 Repair and Maintenance	2.3%	2.4%
Self-employed Workers	n	n
425 Wholesale Electronic Markets and Agents/Brokers	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

2017 Average Wage:	\$13.22
2016 Estimated Employment:	26,172
2026 Projected Employment:	27,103
Growth Rate, 2016-2026:	3.6%
Annual Openings:	3,893

Industry	2016 Share	2026 Share
448 Clothing and Clothing Accessories Stores	15.7%	14.4%
452 General Merchandise Stores	15.3%	15.2%
444 Building Material and Garden Supply Stores	13.9%	14.3%
451 Sporting Goods, Hobby, Book, and Music Stores	10.9%	11.9%
453 Miscellaneous Store Retailers	9.7%	9.5%
441 Motor Vehicle and Parts Dealers	7.8%	8.3%

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

2017 Average Wage:	\$28.54
2016 Estimated Employment:	599
2026 Projected Employment:	532
Growth Rate, 2016-2026:	-11.2%
Annual Openings:	63

Industry	2016 Share	2026 Share
511 Publishing Industries (except Internet)	38.2%	31.8%
517 Telecommunications	17.7%	17.7%
5418 Advertising, Public Relations, and Related Services	16.5%	21.8%
515 Broadcasting (except Internet)	14.5%	13.9%
Self-employed Workers	5.0%	5.5%
425 Wholesale Electronic Markets and Agents/Brokers	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

2017 Average Wage:	\$30.79
2016 Estimated Employment:	2,970
2026 Projected Employment:	3,224
Growth Rate, 2016-2026:	8.6%
Annual Openings:	318

Industry	2016 Share	2026 Share
524 Insurance Carriers and Related Activities	80.5%	80.3%
Self-employed Workers	16.2%	16.2%
522 Credit Intermediation and Related Activities	n	n
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's | none | Moderate OJT

2017 Average Wage:	\$68.18
2016 Estimated Employment:	2,381
2026 Projected Employment:	2,520
Growth Rate, 2016-2026:	5.8%
Annual Openings:	240

Industry	2016 Share	2026 Share
523 Financial Investment and Related Activities	68.5%	68.8%
522 Credit Intermediation and Related Activities	23.3%	22.7%
Self-employed Workers	4.2%	4.3%
425 Wholesale Electronic Markets and Agents/Brokers	n	n
518 Data Processing, Hosting, and Related Services	n	n
524 Insurance Carriers and Related Activities	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

2017 Average Wage:	\$23.36
2016 Estimated Employment:	396
2026 Projected Employment:	344
Growth Rate, 2016-2026:	-13.1%
Annual Openings:	37

Industry	2016 Share	2026 Share
5615 Travel Arrangement and Reservation Services	86.9%	86.3%
Self-employed Workers	13.1%	13.7%

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

2017 Average Wage:	\$37.65
2016 Estimated Employment:	3,874
2026 Projected Employment:	4,243
Growth Rate, 2016-2026:	9.5%
Annual Openings:	515

Industry	2016 Share	2026 Share
443 Electronics and Appliance Stores	7.7%	6.5%
5415 Computer Systems Design and Related Services	7.1%	8.0%
517 Telecommunications	7.1%	6.1%
238 Specialty Trade Contractors	5.2%	5.3%
5418 Advertising, Public Relations, and Related Services	4.9%	5.3%
5613 Employment Services	4.7%	4.4%

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's | none | Moderate OJT

2017 Average Wage:	\$49.92
2016 Estimated Employment:	3,388
2026 Projected Employment:	3,650
Growth Rate, 2016-2026:	7.7%
Annual Openings:	378

Industry	2016 Share	2026 Share
425 Wholesale Electronic Markets and Agents/Brokers	33.3%	32.9%
423 Merchant Wholesalers, Durable Goods	14.2%	14.5%
334 Computer and Electronic Product Manufacturing	11.3%	9.5%
454 Nonstore Retailers	9.0%	10.5%
5415 Computer Systems Design and Related Services	8.3%	9.5%
511 Publishing Industries (except Internet)	3.4%	3.6%

41-4012 Sales Representatives, Wholesale and Manufacturing, Except Technical/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

2017 Average Wage:	\$35.98
2016 Estimated Employment:	7,582
2026 Projected Employment:	8,216
Growth Rate, 2016-2026:	8.4%
Annual Openings:	853

Industry	2016 Share	2026 Share
425 Wholesale Electronic Markets and Agents/Brokers	32.5%	31.9%
423 Merchant Wholesalers, Durable Goods	22.9%	24.2%
424 Merchant Wholesalers, Nondurable Goods	15.6%	15.8%
Self-employed Workers	3.3%	3.0%
444 Building Material and Garden Supply Stores	2.5%	2.5%
238 Specialty Trade Contractors	1.5%	1.6%

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: none | none | Short OJT

2017 Average Wage:	\$12.63
2016 Estimated Employment:	80
2026 Projected Employment:	90
Growth Rate, 2016-2026:	12.5%
Annual Openings:	15

Industry	2016 Share	2026 Share
5418 Advertising, Public Relations, and Related Services	41.3%	44.4%
452 General Merchandise Stores	20.0%	15.6%
424 Merchant Wholesalers, Nondurable Goods	8.8%	8.9%
5613 Employment Services	8.8%	8.9%
312 Beverage and Tobacco Product Manufacturing	7.5%	7.8%
Self-employed Workers	7.5%	6.7%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 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

2017 Average Wage:	\$62.30
2016 Estimated Employment:	379
2026 Projected Employment:	393
Growth Rate, 2016-2026:	3.7%
Annual Openings:	36

Industry	2016 Share	2026 Share
Self-employed Workers	52.8%	54.2%
531 Real Estate	45.4%	44.0%
237 Heavy and Civil Engineering Construction	n	n
5416 Management and Technical Consulting Services	n	n
551 Management of Companies and Enterprises	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

2017 Average Wage:	\$23.94
2016 Estimated Employment:	484
2026 Projected Employment:	507
Growth Rate, 2016-2026:	4.8%
Annual Openings:	46

Industry	2016 Share	2026 Share
Self-employed Workers	52.1%	52.9%
531 Real Estate	39.9%	38.9%
Local Government, Excluding Education	4.8%	4.7%
551 Management of Companies and Enterprises	n	n
5611 Office Administrative Services	n	n
Federal Government, Excluding Post Office	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's | none | Moderate OJT

2017 Average Wage:	\$48.86
2016 Estimated Employment:	495
2026 Projected Employment:	512
Growth Rate, 2016-2026:	3.4%
Annual Openings:	53

Industry	2016 Share	2026 Share
425 Wholesale Electronic Markets and Agents/Brokers	42.4%	43.6%
333 Machinery Manufacturing	13.5%	13.3%
423 Merchant Wholesalers, Durable Goods	12.5%	13.5%
334 Computer and Electronic Product Manufacturing	9.7%	8.6%
517 Telecommunications	8.9%	7.6%
511 Publishing Industries (except Internet)	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

2017 Average Wage:	\$16.61
2016 Estimated Employment:	654
2026 Projected Employment:	634
Growth Rate, 2016-2026:	-3.1%
Annual Openings:	97

Industry	2016 Share	2026 Share
5614 Business Support Services	38.2%	45.4%
5613 Employment Services	16.2%	14.7%
5416 Management and Technical Consulting Services	8.1%	8.5%
441 Motor Vehicle and Parts Dealers	4.0%	3.8%
425 Wholesale Electronic Markets and Agents/Brokers	n	n
511 Publishing Industries (except Internet)	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	Self-employed Workers	n	n
511	Publishing Industries (except Internet)	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

2017 Average Wage:	\$20.77
2016 Estimated Employment:	867
2026 Projected Employment:	960
Growth Rate, 2016-2026:	10.7%
Annual Openings:	127

Industry		2016 Share	2026 Share
522	Credit Intermediation and Related Activities	14.9%	15.4%
	Self-employed Workers	11.2%	11.5%
5416	Management and Technical Consulting Services	7.0%	8.0%
423	Merchant Wholesalers, Durable Goods	6.9%	6.9%
511	Publishing Industries (except Internet)	6.7%	5.6%
452	General Merchandise Stores	5.8%	5.8%

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

2017 Average Wage:	\$27.62
2016 Estimated Employment:	7,351
2026 Projected Employment:	7,591
Growth Rate, 2016-2026:	3.3%
Annual Openings:	745

Industry		2016 Share	2026 Share
621	Ambulatory Health Care Services	8.6%	9.6%
445	Food and Beverage Stores	6.8%	6.9%
522	Credit Intermediation and Related Activities	6.2%	5.6%
524	Insurance Carriers and Related Activities	5.9%	5.8%
452	General Merchandise Stores	5.3%	5.7%
622	Hospitals	4.2%	4.1%

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

2017 Average Wage:	\$15.42
2016 Estimated Employment:	478
2026 Projected Employment:	377
Growth Rate, 2016-2026:	-21.1%
Annual Openings:	45

Industry		2016 Share	2026 Share
622	Hospitals	27.4%	26.0%
721	Accommodation	16.3%	14.9%
621	Ambulatory Health Care Services	15.3%	16.2%
5416	Management and Technical Consulting Services	6.5%	7.2%
5614	Business Support Services	5.7%	7.2%
524	Insurance Carriers and Related Activities	5.2%	5.0%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
6113 Colleges and Universities	100.0%	100.0%

43-2099 Communications Equipment Operators, All Other



All communications equipment operators not listed separately.

Training Category: High School | none | Short OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
622 Hospitals	100.0%	100.0%

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

2017 Average Wage:	\$17.83
2016 Estimated Employment:	1,268
2026 Projected Employment:	1,238
Growth Rate, 2016-2026:	-2.4%
Annual Openings:	126

Industry	2016 Share	2026 Share
5614 Business Support Services	55.2%	54.1%
621 Ambulatory Health Care Services	5.1%	5.6%
425 Wholesale Electronic Markets and Agents/Brokers	4.5%	4.4%
5412 Accounting and Bookkeeping Services	4.5%	4.7%
524 Insurance Carriers and Related Activities	4.4%	4.5%
522 Credit Intermediation and Related Activities	3.9%	3.9%

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

2017 Average Wage:	\$18.87
2016 Estimated Employment:	2,235
2026 Projected Employment:	2,525
Growth Rate, 2016-2026:	13.0%
Annual Openings:	262

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	24.0%	25.2%
5412 Accounting and Bookkeeping Services	22.2%	22.0%
622 Hospitals	14.3%	13.4%
5611 Office Administrative Services	6.8%	7.6%
524 Insurance Carriers and Related Activities	4.4%	4.5%
551 Management of Companies and Enterprises	3.6%	3.5%

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

2017 Average Wage:	\$20.05
2016 Estimated Employment:	8,249
2026 Projected Employment:	8,109
Growth Rate, 2016-2026:	-1.7%
Annual Openings:	885

Industry	2016 Share	2026 Share
5412 Accounting and Bookkeeping Services	8.4%	8.6%
813 Membership Organizations	4.8%	4.8%
Local Government, Excluding Education	4.1%	3.9%
238 Specialty Trade Contractors	3.7%	3.7%
551 Management of Companies and Enterprises	3.4%	3.4%
6113 Colleges and Universities	3.4%	3.2%

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

2017 Average Wage:	\$21.90
2016 Estimated Employment:	772
2026 Projected Employment:	757
Growth Rate, 2016-2026:	-1.9%
Annual Openings:	73

Industry	2016 Share	2026 Share
5412 Accounting and Bookkeeping Services	15.9%	16.4%
5613 Employment Services	9.8%	9.3%
6111 Elementary and Secondary Schools	8.0%	7.5%
551 Management of Companies and Enterprises	7.3%	7.3%
Local Government, Excluding Education	5.8%	5.7%
5415 Computer Systems Design and Related Services	4.8%	5.4%

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

2017 Average Wage:	\$18.98
2016 Estimated Employment:	351
2026 Projected Employment:	341
Growth Rate, 2016-2026:	-2.9%
Annual Openings:	36

Industry	2016 Share	2026 Share
493 Warehousing and Storage	9.7%	11.4%
423 Merchant Wholesalers, Durable Goods	8.6%	9.1%
334 Computer and Electronic Product Manufacturing	7.7%	6.5%
Federal Government, Excluding Post Office	7.7%	7.0%
622 Hospitals	6.8%	6.7%
332 Fabricated Metal Product Manufacturing	6.6%	6.2%

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

2017 Average Wage:	\$14.32
2016 Estimated Employment:	2,033
2026 Projected Employment:	1,814
Growth Rate, 2016-2026:	-10.8%
Annual Openings:	200

Industry	2016 Share	2026 Share
522 Credit Intermediation and Related Activities	98.9%	98.6%
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

2017 Average Wage:	\$18.65
2016 Estimated Employment:	333
2026 Projected Employment:	364
Growth Rate, 2016-2026:	9.3%
Annual Openings:	39

Industry	2016 Share	2026 Share
522 Credit Intermediation and Related Activities	25.8%	25.0%
523 Financial Investment and Related Activities	12.3%	12.6%
551 Management of Companies and Enterprises	8.7%	8.8%
622 Hospitals	7.8%	7.7%
5611 Office Administrative Services	6.6%	7.7%
5613 Employment Services	6.6%	6.6%

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

2017 Average Wage:	\$27.27
2016 Estimated Employment:	393
2026 Projected Employment:	414
Growth Rate, 2016-2026:	5.3%
Annual Openings:	43

Industry	2016 Share	2026 Share
523 Financial Investment and Related Activities	91.1%	91.3%
524 Insurance Carriers and Related Activities	5.9%	5.6%
522 Credit Intermediation and 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

2017 Average Wage:	\$16.89
2016 Estimated Employment:	148
2026 Projected Employment:	158
Growth Rate, 2016-2026:	6.8%
Annual Openings:	18

Industry	2016 Share	2026 Share
5415 Computer Systems Design and Related Services	68.9%	71.5%
6113 Colleges and Universities	14.9%	13.3%
622 Hospitals	6.8%	6.3%
524 Insurance Carriers and Related Activities	3.4%	3.2%
6111 Elementary and Secondary Schools	2.7%	2.5%
523 Financial Investment and Related Activities	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

2017 Average Wage:	\$18.62
2016 Estimated Employment:	435
2026 Projected Employment:	455
Growth Rate, 2016-2026:	4.6%
Annual Openings:	40

Industry	2016 Share	2026 Share
Local Government, Excluding Education	77.2%	77.8%
State Government, excl. Education and Hospitals	21.4%	20.9%
Self-employed Workers	1.4%	1.3%

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

2017 Average Wage:	\$19.69
2016 Estimated Employment:	132
2026 Projected Employment:	135
Growth Rate, 2016-2026:	2.3%
Annual Openings:	14

Industry	2016 Share	2026 Share
522 Credit Intermediation and Related Activities	18.9%	17.8%
454 Nonstore Retailers	11.4%	13.3%
425 Wholesale Electronic Markets and Agents/Brokers	9.1%	8.9%
5614 Business Support Services	9.1%	8.9%
5415 Computer Systems Design and Related Services	8.3%	9.6%
423 Merchant Wholesalers, Durable Goods	7.6%	7.4%

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

2017 Average Wage:	\$18.24
2016 Estimated Employment:	9,380
2026 Projected Employment:	9,656
Growth Rate, 2016-2026:	2.9%
Annual Openings:	1,229

Industry	2016 Share	2026 Share
524 Insurance Carriers and Related Activities	16.7%	16.3%
452 General Merchandise Stores	6.6%	6.6%
517 Telecommunications	6.4%	5.3%
5613 Employment Services	5.0%	4.7%
454 Nonstore Retailers	4.5%	5.0%
5614 Business Support Services	4.2%	5.6%

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

2017 Average Wage:	\$20.44
2016 Estimated Employment:	528
2026 Projected Employment:	549
Growth Rate, 2016-2026:	4.0%
Annual Openings:	48

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	61.9%	60.7%
Local Government, Excluding Education	30.3%	30.8%
624 Social Assistance	3.6%	4.0%
Federal Government, Excluding Post Office	2.7%	2.6%
5416 Management and Technical Consulting Services	n	n
621 Ambulatory Health Care Services	n	n

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

2017 Average Wage:	\$13.03
2016 Estimated Employment:	938
2026 Projected Employment:	849
Growth Rate, 2016-2026:	-9.5%
Annual Openings:	100

Industry	2016 Share	2026 Share
5415 Computer Systems Design and Related Services	30.7%	33.3%
5412 Accounting and Bookkeeping Services	7.6%	7.5%
Local Government, Excluding Education	4.5%	4.2%
6113 Colleges and Universities	4.3%	3.9%
524 Insurance Carriers and Related Activities	3.9%	3.8%
622 Hospitals	3.6%	3.4%

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

2017 Average Wage:	\$11.90
2016 Estimated Employment:	1,363
2026 Projected Employment:	1,423
Growth Rate, 2016-2026:	4.4%
Annual Openings:	221

Industry	2016 Share	2026 Share
721 Accommodation	96.6%	96.5%
531 Real Estate	n	n
713 Amusement, Gambling, and Recreation	n	n
813 Membership Organizations	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

2017 Average Wage:	\$17.50
2016 Estimated Employment:	1,358
2026 Projected Employment:	1,448
Growth Rate, 2016-2026:	6.6%
Annual Openings:	172

Industry	2016 Share	2026 Share
622 Hospitals	30.9%	29.1%
621 Ambulatory Health Care Services	20.6%	22.4%
6113 Colleges and Universities	10.5%	9.8%
624 Social Assistance	6.3%	6.9%
5412 Accounting and Bookkeeping Services	4.8%	4.8%
5611 Office Administrative Services	4.6%	5.1%

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

2017 Average Wage:	\$13.02
2016 Estimated Employment:	794
2026 Projected Employment:	828
Growth Rate, 2016-2026:	4.3%
Annual Openings:	116

Industry	2016 Share	2026 Share
Local Government, Excluding Education	69.4%	70.1%
6111 Elementary and Secondary Schools	13.4%	13.0%
6113 Colleges and Universities	8.7%	8.7%
519 Other Information Services	3.3%	2.9%
424 Merchant Wholesalers, Nondurable Goods	n	n
State Government, excl. Education and Hospitals	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

2017 Average Wage:	\$18.40
2016 Estimated Employment:	848
2026 Projected Employment:	936
Growth Rate, 2016-2026:	10.4%
Annual Openings:	93

Industry	2016 Share	2026 Share
522 Credit Intermediation and Related Activities	76.8%	76.6%
5411 Legal Services	9.2%	8.9%
551 Management of Companies and Enterprises	6.0%	6.0%
5613 Employment Services	2.7%	2.7%
5614 Business Support Services	2.6%	3.1%
441 Motor Vehicle and Parts Dealers	1.9%	2.0%

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

2017 Average Wage:	\$17.11
2016 Estimated Employment:	434
2026 Projected Employment:	395
Growth Rate, 2016-2026:	-9.0%
Annual Openings:	40

Industry	2016 Share	2026 Share
522 Credit Intermediation and Related Activities	98.6%	98.5%
551 Management of Companies and Enterprises	1.4%	1.5%

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

2017 Average Wage:	\$16.91
2016 Estimated Employment:	879
2026 Projected Employment:	897
Growth Rate, 2016-2026:	2.1%
Annual Openings:	101

Industry	2016 Share	2026 Share
454 Nonstore Retailers	23.1%	26.6%
423 Merchant Wholesalers, Durable Goods	11.3%	11.4%
425 Wholesale Electronic Markets and Agents/Brokers	10.4%	9.7%
444 Building Material and Garden Supply Stores	9.0%	8.4%
424 Merchant Wholesalers, Nondurable Goods	7.3%	6.8%
511 Publishing Industries (except Internet)	6.5%	5.0%

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

2017 Average Wage:	\$19.16
2016 Estimated Employment:	475
2026 Projected Employment:	463
Growth Rate, 2016-2026:	-2.5%
Annual Openings:	51

Industry	2016 Share	2026 Share
452 General Merchandise Stores	10.3%	9.9%
622 Hospitals	8.0%	7.8%
5613 Employment Services	6.7%	6.3%
621 Ambulatory Health Care Services	6.7%	8.0%
623 Nursing and Residential Care Facilities	5.7%	6.1%
6113 Colleges and Universities	5.5%	5.2%

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

2017 Average Wage:	\$14.63
2016 Estimated Employment:	5,603
2026 Projected Employment:	5,947
Growth Rate, 2016-2026:	6.1%
Annual Openings:	776

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	29.4%	32.4%
713 Amusement, Gambling, and Recreation	11.9%	11.1%
622 Hospitals	7.8%	7.8%
812 Personal and Laundry Services	7.2%	7.0%
5419 Other Professional, Scientific, and Technical Services	6.4%	6.7%
813 Membership Organizations	3.4%	3.1%

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

2017 Average Wage:	\$18.41
2016 Estimated Employment:	273
2026 Projected Employment:	298
Growth Rate, 2016-2026:	9.2%
Annual Openings:	31

Industry	2016 Share	2026 Share
481 Air Transportation	41.4%	43.0%
485 Transit and Ground Passenger Transportation	22.0%	20.8%
5615 Travel Arrangement and Reservation Services	14.3%	12.8%
531 Real Estate	13.6%	15.1%
721 Accommodation	7.7%	7.4%
713 Amusement, Gambling, and Recreation	0.7%	0.7%

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

2017 Average Wage:	\$16.73
2016 Estimated Employment:	673
2026 Projected Employment:	727
Growth Rate, 2016-2026:	8.0%
Annual Openings:	83

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	20.5%	19.1%
Local Government, Excluding Education and Hospitals	11.7%	11.6%
5614 Business Support Services	6.4%	6.9%
452 General Merchandise Stores	4.5%	4.7%
524 Insurance Carriers and Related Activities	4.3%	4.7%
6112 Junior Colleges	n	n

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

2017 Average Wage:	\$24.98
2016 Estimated Employment:	192
2026 Projected Employment:	210
Growth Rate, 2016-2026:	9.4%
Annual Openings:	18

Industry	2016 Share	2026 Share
488 Support Activities for Transportation	66.7%	68.1%
492 Couriers and Messengers	27.1%	25.7%
484 Truck Transportation	4.2%	4.3%

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

2017 Average Wage:	\$11.51
2016 Estimated Employment:	514
2026 Projected Employment:	583
Growth Rate, 2016-2026:	13.4%
Annual Openings:	56

Industry	2016 Share	2026 Share
492 Couriers and Messengers	44.6%	43.4%
Self-employed Workers	17.7%	19.2%
551 Management of Companies and Enterprises	12.3%	11.8%
493 Warehousing and Storage	7.0%	7.7%
622 Hospitals	6.0%	5.5%
518 Data Processing, Hosting, and Related Services	n	n

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

2017 Average Wage:	\$20.99
2016 Estimated Employment:	762
2026 Projected Employment:	821
Growth Rate, 2016-2026:	7.7%
Annual Openings:	77

Industry	2016 Share	2026 Share
Local Government, Excluding Education	71.5%	69.8%
State Government, excl. Education and Hospitals	15.4%	14.4%
5614 Business Support Services	8.3%	11.2%
6113 Colleges and Universities	2.9%	2.7%
622 Hospitals	2.0%	2.0%

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

2017 Average Wage:	\$20.70
2016 Estimated Employment:	613
2026 Projected Employment:	610
Growth Rate, 2016-2026:	-0.5%
Annual Openings:	55

Industry	2016 Share	2026 Share
485 Transit and Ground Passenger Transportation	18.9%	16.4%
454 Nonstore Retailers	15.3%	13.9%
484 Truck Transportation	11.3%	11.3%
492 Couriers and Messengers	6.2%	6.4%
Local Government, Excluding Education	5.4%	5.4%
5611 Office Administrative Services	n	n

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

2017 Average Wage:	\$27.47
2016 Estimated Employment:	145
2026 Projected Employment:	134
Growth Rate, 2016-2026:	-7.6%
Annual Openings:	9

Industry	2016 Share	2026 Share
221 Utilities	76.6%	75.4%
Local Government, Excluding Education	19.3%	19.4%
237 Heavy and Civil Engineering Construction	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

2017 Average Wage:	\$24.11
2016 Estimated Employment:	542
2026 Projected Employment:	488
Growth Rate, 2016-2026:	-10.0%
Annual Openings:	35

Industry	2016 Share	2026 Share
4911 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

2017 Average Wage:	\$24.85
2016 Estimated Employment:	1,494
2026 Projected Employment:	1,344
Growth Rate, 2016-2026:	-10.0%
Annual Openings:	80

Industry	2016 Share	2026 Share
4911 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

2017 Average Wage:	\$24.56
2016 Estimated Employment:	628
2026 Projected Employment:	537
Growth Rate, 2016-2026:	-14.5%
Annual Openings:	33

Industry	2016 Share	2026 Share
4911 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

2017 Average Wage:	\$26.56
2016 Estimated Employment:	1,305
2026 Projected Employment:	1,332
Growth Rate, 2016-2026:	2.1%
Annual Openings:	135

Industry	2016 Share	2026 Share
334 Computer and Electronic Product Manufacturing	17.2%	15.5%
332 Fabricated Metal Product Manufacturing	12.3%	12.2%
333 Machinery Manufacturing	7.5%	7.7%
335 Electrical Equipment and Appliance Manufacturing	5.2%	5.1%
323 Printing and Related Support Activities	4.6%	4.3%
551 Management of Companies and Enterprises	3.6%	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

2017 Average Wage:	\$16.41
2016 Estimated Employment:	2,763
2026 Projected Employment:	2,812
Growth Rate, 2016-2026:	1.8%
Annual Openings:	280

Industry	2016 Share	2026 Share
423 Merchant Wholesalers, Durable Goods	13.1%	14.1%
493 Warehousing and Storage	8.3%	9.7%
332 Fabricated Metal Product Manufacturing	8.2%	7.7%
334 Computer and Electronic Product Manufacturing	7.2%	6.1%
452 General Merchandise Stores	4.2%	4.1%
445 Food and Beverage Stores	4.1%	4.1%

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: High School | none | Short OJT

2017 Average Wage:	\$13.54
2016 Estimated Employment:	13,671
2026 Projected Employment:	14,475
Growth Rate, 2016-2026:	5.9%
Annual Openings:	1,851

Industry	2016 Share	2026 Share
445 Food and Beverage Stores	37.7%	37.8%
452 General Merchandise Stores	18.7%	18.6%
444 Building Material and Garden Supply Stores	5.0%	5.0%
424 Merchant Wholesalers, Nondurable Goods	4.3%	4.1%
423 Merchant Wholesalers, Durable Goods	3.9%	4.2%
493 Warehousing and Storage	3.8%	4.0%

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

2017 Average Wage:	\$19.88
2016 Estimated Employment:	157
2026 Projected Employment:	170
Growth Rate, 2016-2026:	8.3%
Annual Openings:	16

Industry	2016 Share	2026 Share
493 Warehousing and Storage	23.6%	24.7%
452 General Merchandise Stores	10.2%	9.4%
423 Merchant Wholesalers, Durable Goods	9.6%	11.2%
424 Merchant Wholesalers, Nondurable Goods	8.3%	7.7%
221 Utilities	n	n
325 Chemical Manufacturing	n	n

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

2017 Average Wage:	\$27.81
2016 Estimated Employment:	1,801
2026 Projected Employment:	1,462
Growth Rate, 2016-2026:	-18.8%
Annual Openings:	140

Industry	2016 Share	2026 Share
6113 Colleges and Universities	13.4%	12.9%
523 Financial Investment and Related Activities	9.8%	10.3%
State Government, excl. Education and Hospitals	9.3%	8.7%
Local Government, Excluding Education	7.7%	7.5%
6111 Elementary and Secondary Schools	7.3%	6.9%
622 Hospitals	5.8%	5.6%

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

2017 Average Wage:	\$21.53
2016 Estimated Employment:	811
2026 Projected Employment:	654
Growth Rate, 2016-2026:	-19.4%
Annual Openings:	62

Industry	2016 Share	2026 Share
5411 Legal Services	93.1%	92.7%
Local Government, Excluding Education	2.3%	2.3%
State Government, excl. Education and Hospitals	1.6%	1.5%
Self-employed Workers	0.9%	1.2%
551 Management of Companies and Enterprises	n	n
5613 Employment Services	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

2017 Average Wage:	\$18.79
2016 Estimated Employment:	2,200
2026 Projected Employment:	2,627
Growth Rate, 2016-2026:	19.4%
Annual Openings:	299

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	71.0%	72.9%
622 Hospitals	22.1%	20.5%
5611 Office Administrative Services	1.6%	1.6%
5613 Employment Services	n	n
446 Health and Personal Care Stores	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

2017 Average Wage:	\$17.16
2016 Estimated Employment:	12,290
2026 Projected Employment:	11,353
Growth Rate, 2016-2026:	-7.6%
Annual Openings:	1,162

Industry	2016 Share	2026 Share
6111 Elementary and Secondary Schools	11.8%	11.1%
813 Membership Organizations	7.2%	7.2%
Local Government, Excluding Education	7.2%	6.9%
6113 Colleges and Universities	6.9%	6.6%
621 Ambulatory Health Care Services	6.5%	7.3%
238 Specialty Trade Contractors	3.6%	3.7%

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

2017 Average Wage:	\$21.30
2016 Estimated Employment:	300
2026 Projected Employment:	240
Growth Rate, 2016-2026:	-20.0%
Annual Openings:	21

Industry	2016 Share	2026 Share
518 Data Processing, Hosting, and Related Services	37.0%	37.9%
5415 Computer Systems Design and Related Services	11.0%	11.7%
551 Management of Companies and Enterprises	7.3%	7.1%
524 Insurance Carriers and Related Activities	5.0%	4.6%
State Government, excl. Education and Hospitals	5.0%	4.2%
Self-employed Workers	4.3%	4.2%

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 | Short OJT

2017 Average Wage:	\$15.80
2016 Estimated Employment:	1,482
2026 Projected Employment:	1,207
Growth Rate, 2016-2026:	-18.6%
Annual Openings:	128

Industry	2016 Share	2026 Share
5415 Computer Systems Design and Related Services	46.5%	49.1%
518 Data Processing, Hosting, and Related Services	6.7%	6.8%
State Government, excl. Education and Hospitals	6.6%	5.7%
5613 Employment Services	5.7%	5.4%
621 Ambulatory Health Care Services	3.3%	3.5%
5614 Business Support Services	2.1%	2.0%

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

2017 Average Wage:	\$17.19
2016 Estimated Employment:	68
2026 Projected Employment:	46
Growth Rate, 2016-2026:	-32.4%
Annual Openings:	5

Industry	2016 Share	2026 Share
Local Government, Excluding Education	52.9%	50.0%
State Government, excl. Education and Hospitals	26.5%	23.9%
Federal Government, Excluding Post Office	7.4%	6.5%
Self-employed Workers	5.9%	10.9%
5415 Computer Systems Design and Related 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

2017 Average Wage:	\$18.80
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
State Government, excl. Education and Hospitals	n	n
511 Publishing Industries (except Internet)	n	n
5419 Other Professional, Scientific, and Technical Services	n	n
5613 Employment Services	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

2017 Average Wage:	\$20.87
2016 Estimated Employment:	1,397
2026 Projected Employment:	1,517
Growth Rate, 2016-2026:	8.6%
Annual Openings:	156

Industry	2016 Share	2026 Share
524 Insurance Carriers and Related Activities	94.8%	94.8%
Local Government, Excluding Education	1.6%	1.5%
5611 Office Administrative Services	n	n
5613 Employment Services	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

2017 Average Wage:	\$14.96
2016 Estimated Employment:	439
2026 Projected Employment:	439
Growth Rate, 2016-2026:	0.0%
Annual Openings:	49

Industry	2016 Share	2026 Share
5418 Advertising, Public Relations, and Related Services	19.4%	20.7%
5614 Business Support Services	18.0%	17.1%
5415 Computer Systems Design and Related Services	11.9%	13.0%
323 Printing and Related Support Activities	7.5%	6.4%
6113 Colleges and Universities	5.7%	5.5%
State Government, excl. Education and Hospitals	5.0%	4.6%

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

2017 Average Wage:	\$18.33
2016 Estimated Employment:	16,037
2026 Projected Employment:	15,895
Growth Rate, 2016-2026:	-0.9%
Annual Openings:	1,836

Industry	2016 Share	2026 Share
621 Ambulatory Health Care Services	7.3%	8.0%
238 Specialty Trade Contractors	5.8%	5.8%
622 Hospitals	4.7%	4.5%
423 Merchant Wholesalers, Durable Goods	3.3%	3.5%
813 Membership Organizations	3.2%	3.2%
5613 Employment Services	3.2%	3.1%

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 Embosser; Coin Wrapping Machine Operator; Copy Machine Operator*

Training Category: High School | none | Short OJT

2017 Average Wage:	\$14.54
2016 Estimated Employment:	376
2026 Projected Employment:	324
Growth Rate, 2016-2026:	-13.8%
Annual Openings:	33

Industry	2016 Share	2026 Share
5614 Business Support Services	13.3%	13.0%
518 Data Processing, Hosting, and Related Services	13.0%	14.2%
323 Printing and Related Support Activities	11.2%	9.9%
5613 Employment Services	7.7%	7.7%
5415 Computer Systems Design and Related Services	6.9%	8.0%
5611 Office Administrative Services	6.7%	7.7%

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's | none | none

2017 Average Wage:	\$20.18
2016 Estimated Employment:	54
2026 Projected Employment:	58
Growth Rate, 2016-2026:	7.4%
Annual Openings:	8

Industry	2016 Share	2026 Share
511 Publishing Industries (except Internet)	40.7%	29.3%
Self-employed Workers	11.1%	10.3%
454 Nonstore Retailers	n	n
5418 Advertising, Public Relations, and Related Services	n	n
6113 Colleges and Universities	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's | none | none

2017 Average Wage:	\$23.56
2016 Estimated Employment:	100
2026 Projected Employment:	104
Growth Rate, 2016-2026:	4.0%
Annual Openings:	13

Industry	2016 Share	2026 Share
524 Insurance Carriers and Related Activities	62.0%	61.5%
State Government, excl. Education and Hospitals	10.0%	9.6%
511 Publishing Industries (except Internet)	n	n
5415 Computer Systems Design and Related Services	n	n
5419 Other Professional, Scientific, and Technical Services	n	n
5616 Investigation and Security 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

2017 Average Wage:	\$13.95
2016 Estimated Employment:	1,626
2026 Projected Employment:	1,780
Growth Rate, 2016-2026:	9.5%
Annual Openings:	197

Industry	2016 Share	2026 Share
5613 Employment Services	27.1%	27.1%
445 Food and Beverage Stores	10.6%	10.3%
6113 Colleges and Universities	6.8%	6.4%
524 Insurance Carriers and Related Activities	3.8%	3.9%
Self-employed Workers	3.4%	3.3%
711 Performing Arts and Spectator Sports	3.1%	3.0%

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

2017 Average Wage:	\$26.05
2016 Estimated Employment:	91
2026 Projected Employment:	98
Growth Rate, 2016-2026:	7.7%
Annual Openings:	13

Industry	2016 Share	2026 Share
111 Crop Production	22.0%	22.5%
113 Forestry and Logging	19.8%	20.4%
Self-employed Workers	11.0%	8.2%
112 Animal Production	9.9%	10.2%
713 Amusement, Gambling, and Recreation	7.7%	8.2%
115 Agriculture and Forestry Support Activities	5.5%	6.1%

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's | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	n	n
State Government, excl. 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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
112 Animal Production	100.0%	100.0%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
111	Crop Production	n	n
112	Animal Production	n	n
424	Merchant Wholesalers, Nondurable Goods	n	n

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 | Moderate OJT

2017 Average Wage:	\$14.11
2016 Estimated Employment:	60
2026 Projected Employment:	67
Growth Rate, 2016-2026:	11.7%
Annual Openings:	10

Industry		2016 Share	2026 Share
111	Crop Production	83.3%	83.6%
112	Animal Production	16.7%	16.4%

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

2017 Average Wage:	\$14.11
2016 Estimated Employment:	706
2026 Projected Employment:	751
Growth Rate, 2016-2026:	6.4%
Annual Openings:	114

Industry		2016 Share	2026 Share
111	Crop Production	73.0%	72.6%
444	Building Material and Garden Supply Stores	12.3%	13.5%
112	Animal Production	2.8%	2.8%
424	Merchant Wholesalers, Nondurable Goods	n	n
445	Food and Beverage Stores	n	n
454	Nonstore Retailers	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

2017 Average Wage:	\$15.00
2016 Estimated Employment:	495
2026 Projected Employment:	525
Growth Rate, 2016-2026:	6.1%
Annual Openings:	80

Industry		2016 Share	2026 Share
112	Animal Production	56.8%	56.8%
115	Agriculture and Forestry Support Activities	21.2%	22.1%
713	Amusement, Gambling, and Recreation	8.7%	8.6%
	State Government, excl. Education and Hospitals	5.7%	5.1%
6113	Colleges and Universities	n	n
813	Membership Organizations	n	n

45-2099 Agricultural Workers, All Other



All agricultural workers not listed separately.

Training Category: none | none | Short OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
112	Animal Production	100.0%	100.0%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	31
2026 Projected Employment:	28
Growth Rate, 2016-2026:	-9.7%
Annual Openings:	4

Industry		2016 Share	2026 Share
	State Government, excl. Education and Hospitals	80.7%	78.6%
	Self-employed Workers	n	n
321	Wood Product Manufacturing	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

2017 Average Wage:	\$20.75
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	Self-employed Workers	n	n
113	Forestry and Logging	n	n
321	Wood Product Manufacturing	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

2017 Average Wage:	\$18.36
2016 Estimated Employment:	283
2026 Projected Employment:	263
Growth Rate, 2016-2026:	-7.1%
Annual Openings:	33

Industry		2016 Share	2026 Share
113	Forestry and Logging	62.2%	62.0%
321	Wood Product Manufacturing	13.4%	14.8%
	Self-employed Workers	n	n
423	Merchant Wholesalers, Durable Goods	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

2017 Average Wage:	\$17.59
2016 Estimated Employment:	49
2026 Projected Employment:	46
Growth Rate, 2016-2026:	-6.1%
Annual Openings:	6

Industry		2016 Share	2026 Share
321	Wood Product Manufacturing	77.6%	80.4%
	Self-employed Workers	22.5%	19.6%

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+ yrs | none

2017 Average Wage:	\$30.87
2016 Estimated Employment:	2,686
2026 Projected Employment:	2,929
Growth Rate, 2016-2026:	9.1%
Annual Openings:	291

Industry		2016 Share	2026 Share
236	Construction of Buildings	26.6%	27.7%
238	Specialty Trade Contractors	23.8%	23.7%
	State Government, excl. Education and Hospitals	12.6%	11.7%
	Self-employed Workers	8.9%	8.7%
237	Heavy and Civil Engineering Construction	8.6%	9.2%
	Local Government, Excluding Education	8.5%	8.2%

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

2017 Average Wage:	\$37.83
2016 Estimated Employment:	83
2026 Projected Employment:	87
Growth Rate, 2016-2026:	4.8%
Annual Openings:	9

Industry		2016 Share	2026 Share
238	Specialty Trade Contractors	84.3%	82.8%
	Self-employed Workers	2.4%	3.5%
237	Heavy and Civil Engineering Construction	n	n
5617	Services to Buildings and Dwellings	n	n
6111	Elementary and Secondary Schools	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

2017 Average Wage:	\$23.97
2016 Estimated Employment:	442
2026 Projected Employment:	473
Growth Rate, 2016-2026:	7.0%
Annual Openings:	41

Industry		2016 Share	2026 Share
238	Specialty Trade Contractors	50.5%	51.4%
	Self-employed Workers	26.7%	26.6%
	State Government, excl. Education and Hospitals	13.4%	12.7%
5617	Services to Buildings and Dwellings	n	n
6111	Elementary and Secondary Schools	n	n
	Local Government, Excluding Education	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

2017 Average Wage:	\$20.76
2016 Estimated Employment:	201
2026 Projected Employment:	216
Growth Rate, 2016-2026:	7.5%
Annual Openings:	20

Industry		2016 Share	2026 Share
238	Specialty Trade Contractors	38.8%	39.4%
	Self-employed Workers	26.9%	26.4%
236	Construction of Buildings	n	n
5617	Services to Buildings and Dwellings	n	n

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

2017 Average Wage:	\$22.11
2016 Estimated Employment:	4,431
2026 Projected Employment:	4,731
Growth Rate, 2016-2026:	6.8%
Annual Openings:	443

Industry		2016 Share	2026 Share
236	Construction of Buildings	40.6%	41.1%
	Self-employed Workers	30.0%	29.8%
238	Specialty Trade Contractors	17.2%	17.2%
237	Heavy and Civil Engineering Construction	2.0%	2.1%
321	Wood Product Manufacturing	1.9%	1.7%
337	Furniture and Related Product Manufacturing	1.8%	1.5%

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

2017 Average Wage:	\$18.65
2016 Estimated Employment:	159
2026 Projected Employment:	172
Growth Rate, 2016-2026:	8.2%
Annual Openings:	15

Industry		2016 Share	2026 Share
238	Specialty Trade Contractors	42.1%	42.4%
	Self-employed Workers	32.7%	32.0%
442	Furniture and Home Furnishings Stores	25.2%	25.6%

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

2017 Average Wage:	\$20.41
2016 Estimated Employment:	55
2026 Projected Employment:	60
Growth Rate, 2016-2026:	9.1%
Annual Openings:	5

Industry		2016 Share	2026 Share
238	Specialty Trade Contractors	60.0%	60.0%
	Self-employed Workers	32.7%	31.7%
442	Furniture and Home Furnishings Stores	7.3%	8.3%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	Self-employed Workers	n	n
238	Specialty Trade Contractors	n	n
442	Furniture and Home Furnishings Stores	n	n

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

2017 Average Wage:	\$22.56
2016 Estimated Employment:	124
2026 Projected Employment:	135
Growth Rate, 2016-2026:	8.9%
Annual Openings:	12

Industry		2016 Share	2026 Share
238	Specialty Trade Contractors	55.7%	56.3%
	Self-employed Workers	32.3%	31.9%
327	Nonmetallic Mineral Product Manufacturing	n	n
442	Furniture and Home Furnishings Stores	n	n

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

2017 Average Wage:	\$22.80
2016 Estimated Employment:	162
2026 Projected Employment:	177
Growth Rate, 2016-2026:	9.3%
Annual Openings:	20

Industry		2016 Share	2026 Share
238	Specialty Trade Contractors	96.9%	96.6%
	Self-employed Workers	1.9%	2.3%
237	Heavy and Civil Engineering Construction	n	n
	Local Government, Excluding Education	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

2017 Average Wage:	\$17.58
2016 Estimated Employment:	4,200
2026 Projected Employment:	4,625
Growth Rate, 2016-2026:	10.1%
Annual Openings:	487

Industry		2016 Share	2026 Share
238	Specialty Trade Contractors	38.3%	37.9%
	Self-employed Workers	22.4%	21.6%
236	Construction of Buildings	19.6%	20.2%
237	Heavy and Civil Engineering Construction	13.7%	14.6%
5613	Employment Services	1.7%	1.6%
321	Wood Product Manufacturing	0.8%	0.7%

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 tampers, tamping machine operators, and stone spreader operators. *Examples: Asphalt Spreader Operator; Black Top Machine Operator; Road Grader*

Training Category: High School | none | Moderate OJT

2017 Average Wage:	\$20.18
2016 Estimated Employment:	235
2026 Projected Employment:	258
Growth Rate, 2016-2026:	9.8%
Annual Openings:	27

Industry	2016 Share	2026 Share
238 Specialty Trade Contractors	55.7%	55.8%
237 Heavy and Civil Engineering Construction	32.8%	33.0%
Local Government, Excluding Education	2.1%	1.9%
Self-employed Workers	n	n
324 Petroleum and Coal Products Manufacturing	n	n

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
237 Heavy and Civil Engineering Construction	100.0%	100.0%

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

2017 Average Wage:	\$23.64
2016 Estimated Employment:	867
2026 Projected Employment:	960
Growth Rate, 2016-2026:	10.7%
Annual Openings:	108

Industry	2016 Share	2026 Share
238 Specialty Trade Contractors	40.5%	40.0%
237 Heavy and Civil Engineering Construction	23.4%	24.6%
Local Government, Excluding Education	13.5%	12.8%
236 Construction of Buildings	10.3%	10.5%
Self-employed Workers	3.0%	2.9%
423 Merchant Wholesalers, Durable Goods	n	n

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

2017 Average Wage:	\$22.69
2016 Estimated Employment:	718
2026 Projected Employment:	704
Growth Rate, 2016-2026:	-2.0%
Annual Openings:	61

Industry	2016 Share	2026 Share
238 Specialty Trade Contractors	74.5%	72.0%
Self-employed Workers	19.8%	21.5%
236 Construction of Buildings	4.9%	5.7%
321 Wood Product Manufacturing	n	n
622 Hospitals	n	n

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

2017 Average Wage:	n/a
2016 Estimated Employment:	228
2026 Projected Employment:	222
Growth Rate, 2016-2026:	-2.6%
Annual Openings:	18

Industry		2016 Share	2026 Share
238	Specialty Trade Contractors	74.6%	72.1%
	Self-employed Workers	19.7%	21.6%
236	Construction of Buildings	n	n
321	Wood Product Manufacturing	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

2017 Average Wage:	\$25.67
2016 Estimated Employment:	2,224
2026 Projected Employment:	2,376
Growth Rate, 2016-2026:	6.8%
Annual Openings:	266

Industry		2016 Share	2026 Share
238	Specialty Trade Contractors	76.1%	76.6%
	Self-employed Workers	7.1%	7.0%
6113	Colleges and Universities	2.5%	2.4%
622	Hospitals	1.5%	1.5%
236	Construction of Buildings	1.2%	1.2%
339	Miscellaneous Manufacturing	n	n

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

2017 Average Wage:	\$16.69
2016 Estimated Employment:	189
2026 Projected Employment:	205
Growth Rate, 2016-2026:	8.5%
Annual Openings:	24

Industry		2016 Share	2026 Share
238	Specialty Trade Contractors	81.5%	82.4%
811	Repair and Maintenance	12.2%	11.7%
	Self-employed Workers	4.8%	4.4%
321	Wood Product Manufacturing	n	n
444	Building Material and 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

2017 Average Wage:	\$18.59
2016 Estimated Employment:	139
2026 Projected Employment:	135
Growth Rate, 2016-2026:	-2.9%
Annual Openings:	14

Industry		2016 Share	2026 Share
238	Specialty Trade Contractors	94.2%	94.1%
	Self-employed Workers	n	n
321	Wood Product Manufacturing	n	n

47-2132 Insulation Workers, Mechanical



Apply insulating materials to pipes or ductwork, or other mechanical systems in order to help control and maintain temperature.

Training Category: High School | none | Apprenticeship

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	Self-employed Workers	n	n
237	Heavy and Civil Engineering Construction	n	n
238	Specialty Trade Contractors	n	n

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

2017 Average Wage:	\$19.04
2016 Estimated Employment:	1,296
2026 Projected Employment:	1,348
Growth Rate, 2016-2026:	4.0%
Annual Openings:	116

Industry		2016 Share	2026 Share
238	Specialty Trade Contractors	45.8%	44.1%
	Self-employed Workers	38.7%	39.5%
236	Construction of Buildings	7.5%	8.2%
6113	Colleges and Universities	n	n
622	Hospitals	n	n
531	Real Estate	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
238	Specialty Trade Contractors	n	n
	Self-employed Workers	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

2017 Average Wage:	\$22.39
2016 Estimated Employment:	102
2026 Projected Employment:	117
Growth Rate, 2016-2026:	14.7%
Annual Openings:	13

Industry		2016 Share	2026 Share
237	Heavy and Civil Engineering Construction	52.9%	55.6%
238	Specialty Trade Contractors	25.5%	25.6%
	Self-employed Workers	9.8%	8.6%
	Local Government, Excluding Education	8.8%	7.7%
6111	Elementary and Secondary Schools	2.9%	2.6%

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

2017 Average Wage:	\$26.38
2016 Estimated Employment:	1,673
2026 Projected Employment:	1,906
Growth Rate, 2016-2026:	13.9%
Annual Openings:	208

Industry		2016 Share	2026 Share
238	Specialty Trade Contractors	69.0%	70.4%
	Self-employed Workers	11.1%	10.3%
237	Heavy and Civil Engineering Construction	6.8%	7.1%
333	Machinery Manufacturing	2.5%	2.3%
	Local Government, Excluding Education	2.0%	1.8%
6113	Colleges and Universities	1.9%	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	Self-employed Workers	n	n
236	Construction of Buildings	n	n
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

2017 Average Wage:	\$22.73
2016 Estimated Employment:	240
2026 Projected Employment:	260
Growth Rate, 2016-2026:	8.3%
Annual Openings:	26

Industry		2016 Share	2026 Share
238	Specialty Trade Contractors	80.0%	80.8%
	Self-employed Workers	18.8%	18.1%
321	Wood Product Manufacturing	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

2017 Average Wage:	\$23.07
2016 Estimated Employment:	509
2026 Projected Employment:	538
Growth Rate, 2016-2026:	5.7%
Annual Openings:	57

Industry		2016 Share	2026 Share
332	Fabricated Metal Product Manufacturing	46.8%	45.0%
238	Specialty Trade Contractors	39.5%	40.7%
	Self-employed Workers	1.6%	1.7%
333	Machinery Manufacturing	n	n
423	Merchant Wholesalers, Durable Goods	n	n
425	Wholesale Electronic Markets and Agents/Brokers	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

2017 Average Wage:	\$25.18
2016 Estimated Employment:	113
2026 Projected Employment:	130
Growth Rate, 2016-2026:	15.0%
Annual Openings:	15

Industry	2016 Share	2026 Share
238 Specialty Trade Contractors	62.8%	60.0%
237 Heavy and Civil Engineering Construction	n	n
332 Fabricated Metal Product Manufacturing	n	n
5416 Management and Technical Consulting Services	n	n

47-2231 Solar Photovoltaic Installers



Assemble, install, or maintain solar photovoltaic (PV) systems on roofs or other structures in compliance with site assessment and schematics. May include measuring, cutting, assembling, and bolting structural framing and solar modules. May perform minor electrical work such as current checks.

Training Category: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
238 Specialty Trade Contractors	100.0%	100.0%

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

2017 Average Wage:	\$19.16
2016 Estimated Employment:	106
2026 Projected Employment:	116
Growth Rate, 2016-2026:	9.4%
Annual Openings:	17

Industry	2016 Share	2026 Share
238 Specialty Trade Contractors	95.3%	94.8%
236 Construction of Buildings	3.8%	4.3%

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

2017 Average Wage:	\$16.61
2016 Estimated Employment:	72
2026 Projected Employment:	80
Growth Rate, 2016-2026:	11.1%
Annual Openings:	11

Industry	2016 Share	2026 Share
236 Construction of Buildings	59.7%	61.3%
238 Specialty Trade Contractors	34.7%	33.8%
6113 Colleges and Universities	4.2%	3.8%

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

2017 Average Wage:	\$13.38
2016 Estimated Employment:	125
2026 Projected Employment:	133
Growth Rate, 2016-2026:	6.4%
Annual Openings:	19

Industry	2016 Share	2026 Share
238 Specialty Trade Contractors	89.6%	91.0%
333 Machinery Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n
713 Amusement, Gambling, and Recreation	n	n
6113 Colleges and Universities	n	n

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
238 Specialty Trade Contractors	100.0%	100.0%

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

2017 Average Wage:	\$15.38
2016 Estimated Employment:	113
2026 Projected Employment:	133
Growth Rate, 2016-2026:	17.7%
Annual Openings:	19

Industry	2016 Share	2026 Share
238 Specialty Trade Contractors	74.3%	73.7%
237 Heavy and Civil Engineering Construction	24.8%	25.6%

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

2017 Average Wage:	\$12.66
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
238 Specialty Trade Contractors	100.0%	100.0%

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

2017 Average Wage:	\$10.25
2016 Estimated Employment:	63
2026 Projected Employment:	67
Growth Rate, 2016-2026:	6.4%
Annual Openings:	9

Industry	2016 Share	2026 Share
238 Specialty Trade Contractors	54.0%	55.2%
5613 Employment Services	28.6%	28.4%
442 Furniture and Home Furnishings Stores	7.9%	7.5%
6113 Colleges and Universities	4.8%	4.5%
237 Heavy and Civil Engineering Construction	1.6%	1.5%
State Government, excl. Education and Hospitals	1.6%	1.5%

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+ yrs | none

2017 Average Wage:	\$26.41
2016 Estimated Employment:	335
2026 Projected Employment:	360
Growth Rate, 2016-2026:	7.5%
Annual Openings:	39

Industry	2016 Share	2026 Share
Local Government, Excluding Education	47.5%	46.4%
5413 Architectural and Engineering Services	26.9%	27.8%
Self-employed Workers	6.6%	6.7%
State Government, excl. Education and Hospitals	6.3%	5.8%
236 Construction of Buildings	4.2%	4.4%
624 Social Assistance	1.8%	1.9%

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: Elevator Mechanic; Elevator Installer*

Training Category: none | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
238 Specialty Trade Contractors	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: Wire Fence Builder; Wood Fence Installer*

Training Category: High School | none | Moderate OJT

2017 Average Wage:	\$24.55
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
332 Fabricated Metal Product Manufacturing	n	n
336 Transportation Equipment Manufacturing	n	n
5613 Employment Services	n	n
562 Waste Management and Remediation Services	n	n
Local Government, Excluding Education	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

2017 Average Wage:	\$17.69
2016 Estimated Employment:	1,766
2026 Projected Employment:	1,829
Growth Rate, 2016-2026:	3.6%
Annual Openings:	185

Industry	2016 Share	2026 Share
Local Government, Excluding Education	52.6%	53.5%
State Government, excl. Education and Hospitals	46.4%	45.5%

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

2017 Average Wage:	\$22.69
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
487 Scenic and Sightseeing Transportation	100.0%	100.0%

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: High School | none | Moderate OJT

2017 Average Wage:	\$18.21
2016 Estimated Employment:	124
2026 Projected Employment:	145
Growth Rate, 2016-2026:	16.9%
Annual Openings:	19

Industry	2016 Share	2026 Share
562 Waste Management and Remediation Services	79.0%	81.4%
Local Government, Excluding Education	8.1%	6.9%
Self-employed Workers	n	n
238 Specialty Trade Contractors	n	n

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

2017 Average Wage:	\$25.43
2016 Estimated Employment:	304
2026 Projected Employment:	321
Growth Rate, 2016-2026:	5.6%
Annual Openings:	34

Industry	2016 Share	2026 Share
238 Specialty Trade Contractors	36.2%	37.4%
517 Telecommunications	17.4%	14.6%
237 Heavy and Civil Engineering Construction	15.5%	17.5%
Self-employed Workers	14.5%	14.3%
444 Building Material and Garden Supply Stores	4.3%	4.4%
Local Government, Excluding Education	2.6%	2.5%

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

2017 Average Wage:	\$22.23
2016 Estimated Employment:	140
2026 Projected Employment:	162
Growth Rate, 2016-2026:	15.7%
Annual Openings:	18

Industry	2016 Share	2026 Share
238 Specialty Trade Contractors	47.9%	45.7%
237 Heavy and Civil Engineering Construction	44.3%	46.9%
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 yrs | Long OJT

2017 Average Wage:	\$30.49
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
213 Support Activities for Mining	n	n
238 Specialty Trade Contractors	n	n

47-5042 Mine Cutting and Channeling Machine Operators



Operate machinery such as longwall shears, plows, and cutting machines to cut or channel along the face or seams of coal mines, stone quarries, or other mining surfaces to facilitate blasting, separating, or removing minerals or materials from mines or from the Earth's surface. Includes shale planers.

Training Category: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
327 Nonmetallic Mineral Product Manufacturing	100.0%	100.0%

47-5051 Rock Splitters, Quarry



Separate blocks of rough dimension stone from quarry mass using jackhammer and wedges.

Training Category: none | none | Short OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
327 Nonmetallic Mineral Product Manufacturing	100.0%	100.0%

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

2017 Average Wage:	\$19.33
2016 Estimated Employment:	45
2026 Projected Employment:	54
Growth Rate, 2016-2026:	20.0%
Annual Openings:	8

Industry	2016 Share	2026 Share
213 Support Activities for Mining	n	n
237 Heavy and Civil Engineering Construction	n	n
5413 Architectural and Engineering Services	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

2017 Average Wage:	\$35.30
2016 Estimated Employment:	2,327
2026 Projected Employment:	2,485
Growth Rate, 2016-2026:	6.8%
Annual Openings:	218

Industry	2016 Share	2026 Share
441 Motor Vehicle and Parts Dealers	13.5%	13.8%
811 Repair and Maintenance	10.4%	10.7%
238 Specialty Trade Contractors	6.7%	7.0%
221 Utilities	4.6%	4.4%
423 Merchant Wholesalers, Durable Goods	4.4%	4.7%
517 Telecommunications	n	n

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

2017 Average Wage:	\$22.07
2016 Estimated Employment:	883
2026 Projected Employment:	908
Growth Rate, 2016-2026:	2.8%
Annual Openings:	88

Industry	2016 Share	2026 Share
443 Electronics and Appliance Stores	29.6%	26.7%
423 Merchant Wholesalers, Durable Goods	19.4%	20.4%
Self-employed Workers	13.1%	13.0%
425 Wholesale Electronic Markets and Agents/Brokers	12.2%	12.7%
811 Repair and Maintenance	6.5%	6.3%
5415 Computer Systems Design and Related Services	4.9%	5.8%

49-2021 Radio, Cellular, and Tower Equipment Installers and Repairers



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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
517 Telecommunications	n	n
551 Management of Companies and Enterprises	n	n
811 Repair and Maintenance	n	n
5613 Employment Services	n	n
Local Government, Excluding 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

2017 Average Wage:	\$33.68
2016 Estimated Employment:	1,165
2026 Projected Employment:	1,095
Growth Rate, 2016-2026:	-6.0%
Annual Openings:	111

Industry	2016 Share	2026 Share
517 Telecommunications	75.5%	72.2%
811 Repair and Maintenance	6.9%	7.3%
5613 Employment Services	5.0%	5.8%
622 Hospitals	2.0%	2.3%
423 Merchant Wholesalers, Durable Goods	n	n
5415 Computer Systems Design and Related Services	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

2017 Average Wage:	\$31.56
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
334 Computer and Electronic Product Manufacturing	n	n
488 Support Activities for Transportation	n	n
Federal Government, Excluding Post Office	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: High School | < 5 yrs | Moderate OJT

2017 Average Wage:	\$23.39
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
423 Merchant Wholesalers, Durable Goods	n	n
444 Building Material and Garden Supply Stores	n	n
6113 Colleges and Universities	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

2017 Average Wage:	\$22.41
2016 Estimated Employment:	27
2026 Projected Employment:	29
Growth Rate, 2016-2026:	7.4%
Annual Openings:	3

Industry	2016 Share	2026 Share
423 Merchant Wholesalers, Durable Goods	n	n
6113 Colleges and Universities	n	n
State Government, excl. Education and Hospitals	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

2017 Average Wage:	\$26.78
2016 Estimated Employment:	374
2026 Projected Employment:	394
Growth Rate, 2016-2026:	5.4%
Annual Openings:	35

Industry	2016 Share	2026 Share
423 Merchant Wholesalers, Durable Goods	22.2%	23.4%
811 Repair and Maintenance	19.3%	19.3%
238 Specialty Trade Contractors	17.1%	17.5%
425 Wholesale Electronic Markets and Agents/Brokers	13.6%	14.0%
333 Machinery Manufacturing	7.5%	7.4%
221 Utilities	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 | < 5 yrs | Moderate OJT

2017 Average Wage:	\$38.03
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
221 Utilities	n	n
5413 Architectural and Engineering 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: High School | none | Moderate OJT

2017 Average Wage:	\$17.45
2016 Estimated Employment:	45
2026 Projected Employment:	22
Growth Rate, 2016-2026:	-51.1%
Annual Openings:	1

Industry	2016 Share	2026 Share
443 Electronics and Appliance Stores	91.1%	86.4%
Self-employed Workers	2.2%	4.6%
441 Motor Vehicle and Parts Dealers	n	n
5613 Employment Services	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

2017 Average Wage:	\$22.97
2016 Estimated Employment:	296
2026 Projected Employment:	307
Growth Rate, 2016-2026:	3.7%
Annual Openings:	32

Industry	2016 Share	2026 Share
425 Wholesale Electronic Markets and Agents/Brokers	60.1%	61.6%
Self-employed Workers	17.6%	16.9%
238 Specialty Trade Contractors	n	n
443 Electronics and Appliance Stores	n	n
811 Repair and Maintenance	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

2017 Average Wage:	\$24.33
2016 Estimated Employment:	333
2026 Projected Employment:	378
Growth Rate, 2016-2026:	13.5%
Annual Openings:	43

Industry	2016 Share	2026 Share
5616 Investigation and Security Services	64.3%	65.6%
238 Specialty Trade Contractors	22.5%	21.4%
Self-employed Workers	4.5%	4.2%
423 Merchant Wholesalers, Durable Goods	4.2%	4.5%
Local Government, Excluding Education	2.1%	1.9%
334 Computer and Electronic Product Manufacturing	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

2017 Average Wage:	\$30.44
2016 Estimated Employment:	236
2026 Projected Employment:	259
Growth Rate, 2016-2026:	9.8%
Annual Openings:	21

Industry	2016 Share	2026 Share
488 Support Activities for Transportation	57.6%	60.6%
Federal Government, Excluding Post Office	23.7%	21.6%
336 Transportation Equipment Manufacturing	n	n
481 Air Transportation	n	n
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

2017 Average Wage:	\$20.76
2016 Estimated Employment:	707
2026 Projected Employment:	763
Growth Rate, 2016-2026:	7.9%
Annual Openings:	75

Industry	2016 Share	2026 Share
811 Repair and Maintenance	84.4%	84.0%
Self-employed Workers	8.1%	8.0%
441 Motor Vehicle and Parts Dealers	6.5%	7.0%
423 Merchant Wholesalers, Durable Goods	n	n
5613 Employment Services	n	n
State Government, excl. Education and Hospitals	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

2017 Average Wage:	\$20.12
2016 Estimated Employment:	70
2026 Projected Employment:	75
Growth Rate, 2016-2026:	7.1%
Annual Openings:	7

Industry	2016 Share	2026 Share
811 Repair and Maintenance	97.1%	97.3%
Self-employed Workers	2.9%	2.7%

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

2017 Average Wage:	\$21.22
2016 Estimated Employment:	4,162
2026 Projected Employment:	4,393
Growth Rate, 2016-2026:	5.6%
Annual Openings:	416

Industry	2016 Share	2026 Share
441 Motor Vehicle and Parts Dealers	42.4%	43.2%
811 Repair and Maintenance	34.1%	34.4%
Self-employed Workers	11.5%	11.5%
447 Gasoline Stations	3.7%	2.9%
5613 Employment Services	1.4%	1.4%
Local Government, Excluding Education	1.0%	0.8%

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

2017 Average Wage:	\$23.19
2016 Estimated Employment:	944
2026 Projected Employment:	1,064
Growth Rate, 2016-2026:	12.7%
Annual Openings:	100

Industry	2016 Share	2026 Share
811 Repair and Maintenance	16.4%	17.2%
441 Motor Vehicle and Parts Dealers	11.8%	12.0%
423 Merchant Wholesalers, Durable Goods	10.5%	11.4%
Local Government, Excluding Education	8.7%	8.7%
484 Truck Transportation	6.5%	6.3%
Self-employed Workers	6.0%	5.6%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
111 Crop Production	n	n
115 Agriculture and Forestry Support Activities	n	n
423 Merchant Wholesalers, Durable Goods	n	n
444 Building Material and Garden Supply Stores	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

2017 Average Wage:	\$25.02
2016 Estimated Employment:	382
2026 Projected Employment:	423
Growth Rate, 2016-2026:	10.7%
Annual Openings:	41

Industry	2016 Share	2026 Share
423 Merchant Wholesalers, Durable Goods	30.1%	31.4%
State Government, excl. Education and Hospitals	9.7%	8.8%
Local Government, Excluding Education	5.8%	5.7%
238 Specialty Trade Contractors	7.3%	7.3%
237 Heavy and Civil Engineering Construction	n	n
532 Rental and Leasing Services	n	n

49-3043 Rail Car Repairers



Diagnose, adjust, repair, or overhaul railroad rolling stock, mine cars, or mass transit rail cars.

Training Category: High School | none | Long OJT

2017 Average Wage:	\$23.65
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
485 Transit and Ground Passenger Transportation	n	n
487 Scenic and Sightseeing Transportation	n	n
488 Support Activities for Transportation	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

2017 Average Wage:	\$20.67
2016 Estimated Employment:	184
2026 Projected Employment:	188
Growth Rate, 2016-2026:	2.2%
Annual Openings:	20

Industry	2016 Share	2026 Share
713 Amusement, Gambling, and Recreation	42.9%	46.8%
441 Motor Vehicle and Parts Dealers	39.1%	36.2%
Self-employed Workers	10.9%	10.1%
532 Rental and Leasing Services	n	n
811 Repair and Maintenance	n	n
State Government, excl. Education and Hospitals	n	n

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

2017 Average Wage:	\$21.17
2016 Estimated Employment:	220
2026 Projected Employment:	220
Growth Rate, 2016-2026:	0.0%
Annual Openings:	23

Industry	2016 Share	2026 Share
441 Motor Vehicle and Parts Dealers	78.6%	77.7%
Self-employed Workers	10.9%	10.5%
336 Transportation Equipment Manufacturing	n	n
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

2017 Average Wage:	\$18.68
2016 Estimated Employment:	386
2026 Projected Employment:	424
Growth Rate, 2016-2026:	9.8%
Annual Openings:	45

Industry	2016 Share	2026 Share
444 Building Material and Garden Supply Stores	32.9%	35.6%
713 Amusement, Gambling, and Recreation	10.9%	11.1%
Self-employed Workers	10.6%	9.4%
441 Motor Vehicle and Parts Dealers	10.1%	8.7%
532 Rental and Leasing Services	8.8%	8.5%
5617 Services to Buildings and Dwellings	8.3%	8.0%

49-3091 Bicycle Repairers



Repair and service bicycles. *Example: Bicycle Mechanic*

Training Category: High School | none | Moderate OJT

2017 Average Wage:	\$12.42
2016 Estimated Employment:	175
2026 Projected Employment:	225
Growth Rate, 2016-2026:	28.6%
Annual Openings:	29

Industry		2016 Share	2026 Share
451	Sporting Goods, Hobby, Book, and Music Stores	88.0%	90.2%
	Self-employed Workers	1.7%	1.3%
551	Management of Companies and Enterprises	n	n
713	Amusement, Gambling, and Recreation	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

2017 Average Wage:	\$17.61
2016 Estimated Employment:	184
2026 Projected Employment:	177
Growth Rate, 2016-2026:	-3.8%
Annual Openings:	22

Industry		2016 Share	2026 Share
441	Motor Vehicle and Parts Dealers	91.9%	91.0%
811	Repair and Maintenance	6.5%	7.3%
	Self-employed Workers	1.6%	1.7%

49-3093 Tire Repairers and Changers



Repair and replace tires. *Example: Tire Fixer*

Training Category: High School | none | Short OJT

2017 Average Wage:	\$12.40
2016 Estimated Employment:	400
2026 Projected Employment:	405
Growth Rate, 2016-2026:	1.3%
Annual Openings:	49

Industry		2016 Share	2026 Share
441	Motor Vehicle and Parts Dealers	81.0%	78.5%
423	Merchant Wholesalers, Durable Goods	6.3%	7.2%
452	General Merchandise Stores	5.0%	5.9%
811	Repair and Maintenance	4.5%	4.9%
	Self-employed Workers	n	n
551	Management of Companies and Enterprises	n	n

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

2017 Average Wage:	\$21.11
2016 Estimated Employment:	200
2026 Projected Employment:	220
Growth Rate, 2016-2026:	10.0%
Annual Openings:	17

Industry		2016 Share	2026 Share
238	Specialty Trade Contractors	78.0%	78.2%
	Self-employed Workers	2.0%	1.8%
332	Fabricated Metal Product Manufacturing	n	n
335	Electrical Equipment and Appliance Manufacturing	n	n
423	Merchant Wholesalers, Durable Goods	n	n

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

2017 Average Wage:	\$29.82
2016 Estimated Employment:	125
2026 Projected Employment:	133
Growth Rate, 2016-2026:	6.4%
Annual Openings:	10

Industry		2016 Share	2026 Share
221	Utilities	36.8%	33.1%
423	Merchant Wholesalers, Durable Goods	20.8%	23.3%
	Local Government, Excluding Education	13.6%	13.5%
237	Heavy and Civil Engineering Construction	n	n
562	Waste Management and Remediation 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

2017 Average Wage:	\$24.69
2016 Estimated Employment:	2,023
2026 Projected Employment:	2,198
Growth Rate, 2016-2026:	8.7%
Annual Openings:	218

Industry		2016 Share	2026 Share
238	Specialty Trade Contractors	48.9%	52.4%
454	Nonstore Retailers	22.6%	19.7%
	Self-employed Workers	7.9%	7.8%
425	Wholesale Electronic Markets and Agents/Brokers	7.5%	7.3%
424	Merchant Wholesalers, Nondurable Goods	2.8%	2.6%
6113	Colleges and Universities	1.7%	1.6%

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

2017 Average Wage:	\$20.99
2016 Estimated Employment:	184
2026 Projected Employment:	192
Growth Rate, 2016-2026:	4.4%
Annual Openings:	18

Industry		2016 Share	2026 Share
811	Repair and Maintenance	28.3%	26.6%
	Self-employed Workers	25.5%	23.4%
453	Miscellaneous Store Retailers	17.4%	22.4%
443	Electronics and Appliance Stores	14.1%	12.5%
442	Furniture and Home Furnishings Stores	n	n
5613	Employment Services	n	n

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

2017 Average Wage:	\$27.01
2016 Estimated Employment:	2,210
2026 Projected Employment:	2,405
Growth Rate, 2016-2026:	8.8%
Annual Openings:	217

Industry		2016 Share	2026 Share
811	Repair and Maintenance	11.7%	12.4%
335	Electrical Equipment and Appliance Manufacturing	9.4%	9.5%
423	Merchant Wholesalers, Durable Goods	9.3%	9.8%
334	Computer and Electronic Product Manufacturing	8.7%	8.1%
332	Fabricated Metal Product Manufacturing	8.0%	7.8%
326	Plastics and Rubber Products Manufacturing	6.3%	6.1%

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 | Long OJT

2017 Average Wage:	\$20.27
2016 Estimated Employment:	221
2026 Projected Employment:	231
Growth Rate, 2016-2026:	4.5%
Annual Openings:	24

Industry	2016 Share	2026 Share
326 Plastics and Rubber Products Manufacturing	17.2%	16.9%
221 Utilities	n	n
313 Textile Mills	n	n
321 Wood Product Manufacturing	n	n
331 Primary Metal Manufacturing	n	n
332 Fabricated Metal Product 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

2017 Average Wage:	\$26.67
2016 Estimated Employment:	136
2026 Projected Employment:	144
Growth Rate, 2016-2026:	5.9%
Annual Openings:	13

Industry	2016 Share	2026 Share
238 Specialty Trade Contractors	60.3%	63.2%
237 Heavy and Civil Engineering Construction	n	n
322 Paper Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n
811 Repair and Maintenance	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

2017 Average Wage:	\$34.94
2016 Estimated Employment:	732
2026 Projected Employment:	787
Growth Rate, 2016-2026:	7.5%
Annual Openings:	65

Industry	2016 Share	2026 Share
221 Utilities	62.0%	58.7%
238 Specialty Trade Contractors	19.0%	18.9%
237 Heavy and Civil Engineering Construction	15.6%	19.1%
Self-employed Workers	1.5%	1.4%
551 Management of Companies and Enterprises	n	n
Local Government, Excluding Education	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

2017 Average Wage:	\$32.13
2016 Estimated Employment:	534
2026 Projected Employment:	523
Growth Rate, 2016-2026:	-2.1%
Annual Openings:	51

Industry	2016 Share	2026 Share
517 Telecommunications	68.5%	62.1%
238 Specialty Trade Contractors	12.9%	14.2%
237 Heavy and Civil Engineering Construction	12.4%	16.6%
Self-employed Workers	4.1%	4.4%
5416 Management and Technical Consulting Services	n	n
811 Repair and Maintenance	n	n

49-9061 Camera and Photographic Equipment Repairers



Repair and adjust cameras and photographic equipment, including commercial video and motion picture camera equipment.

Training Category: High School | none | Long OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
6113 Colleges and Universities	100.0%	100.0%

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

2017 Average Wage:	\$26.99
2016 Estimated Employment:	116
2026 Projected Employment:	126
Growth Rate, 2016-2026:	8.6%
Annual Openings:	12

Industry	2016 Share	2026 Share
622 Hospitals	50.9%	50.0%
811 Repair and Maintenance	17.2%	15.9%
621 Ambulatory Health Care Services	7.8%	9.5%
Self-employed Workers	6.0%	5.6%
423 Merchant Wholesalers, Durable Goods	n	n
532 Rental and Leasing Services	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

2017 Average Wage:	\$20.46
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
451 Sporting Goods, Hobby, Book, and Music Stores	n	n
454 Nonstore Retailers	n	n
811 Repair and Maintenance	n	n
6113 Colleges and Universities	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
453 Miscellaneous Store Retailers	n	n
811 Repair and Maintenance	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

2017 Average Wage:	\$32.69
2016 Estimated Employment:	148
2026 Projected Employment:	153
Growth Rate, 2016-2026:	3.4%
Annual Openings:	13

Industry		2016 Share	2026 Share
811	Repair and Maintenance	41.2%	40.5%
	Self-employed Workers	4.7%	4.6%
	Federal Government, Excluding Post Office	5.4%	5.2%
325	Chemical Manufacturing	n	n
333	Machinery Manufacturing	n	n
334	Computer and Electronic Product Manufacturing	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 | Moderate OJT

2017 Average Wage:	\$20.48
2016 Estimated Employment:	4,711
2026 Projected Employment:	5,067
Growth Rate, 2016-2026:	7.6%
Annual Openings:	507

Industry		2016 Share	2026 Share
531	Real Estate	18.2%	18.8%
721	Accommodation	12.2%	11.9%
	Local Government, Excluding Education	6.5%	6.3%
813	Membership Organizations	5.4%	5.4%
6111	Elementary and Secondary Schools	4.0%	3.8%
623	Nursing and Residential Care Facilities	3.7%	4.0%

49-9081 Wind Turbine Service Technicians 

Inspect, diagnose, adjust, or repair wind turbines. Perform maintenance on wind turbine equipment including resolving electrical, mechanical, and hydraulic malfunctions.

Training Category: Postsecondary | none | Long OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	Self-employed Workers	n	n
221	Utilities	n	n

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	Self-employed Workers	n	n
454	Nonstore Retailers	n	n
713	Amusement, Gambling, and Recreation	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

2017 Average Wage:	\$28.60
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
237 Heavy and Civil Engineering Construction	n	n
5619 Other Support Services	n	n

49-9093 Fabric Menders, Except Garment



Repair tears, holes, and other defects in fabrics, such as draperies, linens, parachutes, and tents.

Training Category: High School | none | Long OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
313 Textile Mills	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

2017 Average Wage:	\$24.76
2016 Estimated Employment:	84
2026 Projected Employment:	79
Growth Rate, 2016-2026:	-6.0%
Annual Openings:	7

Industry	2016 Share	2026 Share
5616 Investigation and Security Services	33.3%	32.9%
Self-employed Workers	29.8%	34.2%
6113 Colleges and Universities	19.1%	16.5%
238 Specialty Trade Contractors	n	n
6111 Elementary and Secondary Schools	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 | none | Short OJT

2017 Average Wage:	\$17.62
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
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 | Moderate OJT

2017 Average Wage:	\$20.03
2016 Estimated Employment:	28
2026 Projected Employment:	31
Growth Rate, 2016-2026:	10.7%
Annual Openings:	3

Industry	2016 Share	2026 Share
238 Specialty Trade Contractors	n	n
336 Transportation Equipment Manufacturing	n	n
441 Motor Vehicle and Parts Dealers	n	n
484 Truck Transportation	n	n
532 Rental and Leasing Services	n	n
713 Amusement, Gambling, and Recreation	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

2017 Average Wage:	\$12.95
2016 Estimated Employment:	546
2026 Projected Employment:	609
Growth Rate, 2016-2026:	11.5%
Annual Openings:	78

Industry	2016 Share	2026 Share
238 Specialty Trade Contractors	22.9%	23.3%
811 Repair and Maintenance	20.0%	19.7%
441 Motor Vehicle and Parts Dealers	17.2%	17.4%
713 Amusement, Gambling, and Recreation	4.8%	4.8%
Local Government, Excluding Education	3.7%	3.5%
State Government, excl. Education and Hospitals	3.3%	3.1%

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

2017 Average Wage:	\$21.06
2016 Estimated Employment:	476
2026 Projected Employment:	527
Growth Rate, 2016-2026:	10.7%
Annual Openings:	52

Industry	2016 Share	2026 Share
423 Merchant Wholesalers, Durable Goods	18.1%	19.0%
Self-employed Workers	13.9%	13.7%
238 Specialty Trade Contractors	9.2%	9.3%
Federal Government, Excluding Post Office	4.8%	4.4%
531 Real Estate	4.2%	4.0%
5617 Services to Buildings and Dwellings	4.2%	4.2%

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

2017 Average Wage:	\$31.34
2016 Estimated Employment:	3,008
2026 Projected Employment:	3,012
Growth Rate, 2016-2026:	0.1%
Annual Openings:	289

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	14.7%	14.8%
334 Computer and Electronic Product Manufacturing	13.7%	12.6%
326 Plastics and Rubber Products Manufacturing	9.0%	8.6%
333 Machinery Manufacturing	5.8%	6.1%
335 Electrical Equipment and Appliance Manufacturing	5.4%	5.4%
339 Miscellaneous Manufacturing	4.5%	4.2%

51-2011 Aircraft Structure, Surfaces, Rigging, and Systems Assemblers



Assemble, fit, fasten, and install parts of airplanes, space vehicles, or missiles. *Examples: Aircraft Fuselage Framer; Aircraft Riveter*

Training Category: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
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

2017 Average Wage:	\$17.06
2016 Estimated Employment:	66
2026 Projected Employment:	53
Growth Rate, 2016-2026:	-19.7%
Annual Openings:	6

Industry	2016 Share	2026 Share
335 Electrical Equipment and Appliance Manufacturing	83.3%	83.0%
334 Computer and Electronic Product Manufacturing	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

2017 Average Wage:	\$16.83
2016 Estimated Employment:	2,212
2026 Projected Employment:	1,728
Growth Rate, 2016-2026:	-21.9%
Annual Openings:	181

Industry	2016 Share	2026 Share
334 Computer and Electronic Product Manufacturing	52.8%	49.7%
335 Electrical Equipment and Appliance Manufacturing	34.8%	36.1%
5613 Employment Services	6.3%	7.1%
423 Merchant Wholesalers, Durable Goods	n	n
425 Wholesale Electronic Markets and Agents/Brokers	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

2017 Average Wage:	\$17.62
2016 Estimated Employment:	1,224
2026 Projected Employment:	954
Growth Rate, 2016-2026:	-22.1%
Annual Openings:	99

Industry	2016 Share	2026 Share
334 Computer and Electronic Product Manufacturing	51.2%	48.2%
333 Machinery Manufacturing	29.5%	30.9%
5613 Employment Services	9.2%	10.1%
335 Electrical Equipment and Appliance Manufacturing	3.4%	3.4%
336 Transportation Equipment Manufacturing	n	n
425 Wholesale 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

2017 Average Wage:	\$20.90
2016 Estimated Employment:	197
2026 Projected Employment:	174
Growth Rate, 2016-2026:	-11.7%
Annual Openings:	17

Industry	2016 Share	2026 Share
333 Machinery Manufacturing	51.8%	50.0%
221 Utilities	n	n
332 Fabricated Metal Product Manufacturing	n	n
336 Transportation Equipment Manufacturing	n	n
5613 Employment Services	n	n
811 Repair and Maintenance	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

2017 Average Wage:	\$21.87
2016 Estimated Employment:	271
2026 Projected Employment:	223
Growth Rate, 2016-2026:	-17.7%
Annual Openings:	21

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	87.5%	86.1%
238 Specialty Trade Contractors	n	n
333 Machinery Manufacturing	n	n
335 Electrical Equipment and Appliance Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n
423 Merchant Wholesalers, Durable Goods	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
326 Plastics and Rubber Products Manufacturing	n	n
336 Transportation Equipment 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

2017 Average Wage:	\$17.18
2016 Estimated Employment:	4,415
2026 Projected Employment:	3,726
Growth Rate, 2016-2026:	-15.6%
Annual Openings:	400

Industry	2016 Share	2026 Share
333 Machinery Manufacturing	22.4%	22.4%
334 Computer and Electronic Product Manufacturing	16.0%	14.1%
5613 Employment Services	12.2%	15.5%
332 Fabricated Metal Product Manufacturing	10.8%	10.2%
339 Miscellaneous Manufacturing	7.8%	6.9%
335 Electrical Equipment and Appliance Manufacturing	6.4%	6.0%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
335 Electrical Equipment and Appliance Manufacturing	100.0%	100.0%

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

2017 Average Wage:	\$15.57
2016 Estimated Employment:	749
2026 Projected Employment:	630
Growth Rate, 2016-2026:	-15.9%
Annual Openings:	67

Industry	2016 Share	2026 Share
339 Miscellaneous Manufacturing	18.7%	16.4%
5613 Employment Services	17.6%	18.6%
332 Fabricated Metal Product Manufacturing	11.4%	10.8%
334 Computer and Electronic Product Manufacturing	9.0%	7.9%
333 Machinery Manufacturing	6.9%	6.8%
452 General Merchandise Stores	6.4%	8.3%

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

2017 Average Wage:	\$13.78
2016 Estimated Employment:	981
2026 Projected Employment:	1,076
Growth Rate, 2016-2026:	9.7%
Annual Openings:	153

Industry	2016 Share	2026 Share
722 Food Services and Drinking Places	30.6%	31.5%
311 Food Manufacturing	25.9%	24.5%
445 Food and Beverage Stores	16.4%	15.8%
5613 Employment Services	8.6%	8.5%
452 General Merchandise Stores	8.1%	8.6%
Self-employed Workers	4.3%	5.2%

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

2017 Average Wage:	\$19.38
2016 Estimated Employment:	510
2026 Projected Employment:	540
Growth Rate, 2016-2026:	5.9%
Annual Openings:	67

Industry	2016 Share	2026 Share
445 Food and Beverage Stores	92.4%	92.2%
311 Food Manufacturing	2.9%	3.0%
452 General Merchandise Stores	2.4%	2.4%
424 Merchant Wholesalers, Nondurable Goods	1.2%	1.1%
Self-employed Workers	0.6%	0.7%

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

2017 Average Wage:	\$12.32
2016 Estimated Employment:	94
2026 Projected Employment:	104
Growth Rate, 2016-2026:	10.6%
Annual Openings:	13

Industry	2016 Share	2026 Share
445 Food and Beverage Stores	47.9%	46.2%
424 Merchant Wholesalers, Nondurable Goods	34.0%	36.5%
Self-employed Workers	1.1%	1.0%
311 Food Manufacturing	n	n
452 General Merchandise 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

2017 Average Wage:	\$14.27
2016 Estimated Employment:	37
2026 Projected Employment:	38
Growth Rate, 2016-2026:	2.7%
Annual Openings:	5

Industry	2016 Share	2026 Share
311 Food Manufacturing	n	n
445 Food and Beverage Stores	n	n

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

2017 Average Wage:	\$16.47
2016 Estimated Employment:	58
2026 Projected Employment:	64
Growth Rate, 2016-2026:	10.3%
Annual Openings:	7

Industry	2016 Share	2026 Share
445 Food and Beverage Stores	41.4%	39.1%
424 Merchant Wholesalers, Nondurable Goods	31.0%	32.8%
311 Food Manufacturing	24.1%	23.4%
Self-employed Workers	1.7%	1.6%
452 General Merchandise Stores	1.7%	3.1%

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

2017 Average Wage:	\$15.13
2016 Estimated Employment:	413
2026 Projected Employment:	435
Growth Rate, 2016-2026:	5.3%
Annual Openings:	60

Industry	2016 Share	2026 Share
311 Food Manufacturing	71.2%	70.1%
445 Food and Beverage Stores	17.0%	17.0%
424 Merchant Wholesalers, Nondurable Goods	8.2%	9.0%
454 Nonstore Retailers	1.5%	1.6%
Self-employed Workers	1.2%	1.4%
722 Food Services and Drinking Places	0.7%	0.7%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
311	Food Manufacturing	n	n
454	Nonstore Retailers	n	n

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

2017 Average Wage:	\$14.08
2016 Estimated Employment:	139
2026 Projected Employment:	153
Growth Rate, 2016-2026:	10.1%
Annual Openings:	17

Industry		2016 Share	2026 Share
5613	Employment Services	66.9%	66.0%
452	General Merchandise Stores	20.9%	21.6%
311	Food Manufacturing	7.2%	6.5%
	Self-employed Workers	5.0%	5.9%

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

2017 Average Wage:	\$18.26
2016 Estimated Employment:	1,963
2026 Projected Employment:	1,974
Growth Rate, 2016-2026:	0.6%
Annual Openings:	193

Industry		2016 Share	2026 Share
332	Fabricated Metal Product Manufacturing	46.4%	46.9%
333	Machinery Manufacturing	18.2%	19.0%
334	Computer and Electronic Product Manufacturing	15.7%	14.6%
331	Primary Metal Manufacturing	5.2%	4.8%
339	Miscellaneous Manufacturing	4.8%	4.5%
326	Plastics and Rubber Products Manufacturing	4.2%	4.1%

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: Postsecondary | none | Moderate OJT

2017 Average Wage:	\$27.39
2016 Estimated Employment:	182
2026 Projected Employment:	212
Growth Rate, 2016-2026:	16.5%
Annual Openings:	22

Industry		2016 Share	2026 Share
332	Fabricated Metal Product Manufacturing	58.2%	58.5%
333	Machinery Manufacturing	14.3%	14.6%
339	Miscellaneous Manufacturing	8.8%	8.5%
334	Computer and Electronic Product Manufacturing	7.7%	7.1%
326	Plastics and Rubber Products Manufacturing	5.0%	4.7%
444	Building Material and Garden Supply Stores	2.2%	1.9%

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

2017 Average Wage:	\$17.81
2016 Estimated Employment:	796
2026 Projected Employment:	679
Growth Rate, 2016-2026:	-14.7%
Annual Openings:	61

Industry	2016 Share	2026 Share
326 Plastics and Rubber Products Manufacturing	52.9%	52.0%
335 Electrical Equipment and Appliance Manufacturing	17.8%	18.3%
331 Primary Metal Manufacturing	12.6%	12.8%
332 Fabricated Metal Product Manufacturing	12.1%	11.9%
425 Wholesale Electronic Markets and Agents/Brokers	n	n
339 Miscellaneous Manufacturing	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

2017 Average Wage:	\$18.39
2016 Estimated Employment:	80
2026 Projected Employment:	61
Growth Rate, 2016-2026:	-23.8%
Annual Openings:	5

Industry	2016 Share	2026 Share
331 Primary Metal Manufacturing	72.5%	72.1%
332 Fabricated Metal Product Manufacturing	n	n
337 Furniture and Related Product Manufacturing	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

2017 Average Wage:	\$18.22
2016 Estimated Employment:	72
2026 Projected Employment:	65
Growth Rate, 2016-2026:	-9.7%
Annual Openings:	6

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	47.2%	47.7%
5613 Employment Services	15.3%	16.9%
323 Printing and Related Support Activities	13.9%	12.3%
326 Plastics and Rubber Products Manufacturing	12.5%	12.3%
331 Primary Metal Manufacturing	9.7%	9.2%
333 Machinery Manufacturing	1.4%	1.5%

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

2017 Average Wage:	\$17.50
2016 Estimated Employment:	497
2026 Projected Employment:	438
Growth Rate, 2016-2026:	-11.9%
Annual Openings:	46

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	34.6%	35.4%
331 Primary Metal Manufacturing	17.9%	17.4%
339 Miscellaneous Manufacturing	11.9%	11.0%
334 Computer and Electronic Product Manufacturing	9.1%	8.5%
333 Machinery Manufacturing	8.1%	8.7%
326 Plastics and Rubber Products Manufacturing	5.6%	5.5%

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

2017 Average Wage:	\$21.87
2016 Estimated Employment:	61
2026 Projected Employment:	50
Growth Rate, 2016-2026:	-18.0%
Annual Openings:	5

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	57.4%	58.0%
425 Wholesale Electronic Markets and Agents/Brokers	18.0%	18.0%
331 Primary Metal Manufacturing	13.1%	12.0%
5613 Employment Services	8.2%	8.0%
335 Electrical Equipment and Appliance Manufacturing	3.3%	4.0%

51-4033 Grinding/Lapping/ Polishing/Buffering 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

2017 Average Wage:	\$17.62
2016 Estimated Employment:	735
2026 Projected Employment:	675
Growth Rate, 2016-2026:	-8.2%
Annual Openings:	67

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	50.3%	49.5%
333 Machinery Manufacturing	16.1%	16.3%
331 Primary Metal Manufacturing	11.3%	10.1%
5613 Employment Services	10.5%	11.4%
336 Transportation Equipment Manufacturing	6.5%	7.3%
Self-employed Workers	2.2%	2.4%

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

2017 Average Wage:	\$19.95
2016 Estimated Employment:	110
2026 Projected Employment:	100
Growth Rate, 2016-2026:	-9.1%
Annual Openings:	9

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	85.5%	86.0%
326 Plastics and Rubber Products Manufacturing	10.0%	9.0%
333 Machinery Manufacturing	n	n
336 Transportation Equipment Manufacturing	n	n
339 Miscellaneous 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

2017 Average Wage:	\$21.52
2016 Estimated Employment:	73
2026 Projected Employment:	59
Growth Rate, 2016-2026:	-19.2%
Annual Openings:	6

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	80.8%	81.4%
326 Plastics and Rubber Products Manufacturing	n	n
333 Machinery 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

2017 Average Wage:	\$22.81
2016 Estimated Employment:	2,207
2026 Projected Employment:	2,251
Growth Rate, 2016-2026:	2.0%
Annual Openings:	226

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	56.7%	56.7%
333 Machinery Manufacturing	12.4%	12.7%
334 Computer and Electronic Product Manufacturing	7.0%	6.4%
336 Transportation Equipment Manufacturing	4.7%	5.1%
326 Plastics and Rubber Products Manufacturing	4.6%	4.3%
339 Miscellaneous Manufacturing	3.2%	3.0%

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

2017 Average Wage:	\$19.78
2016 Estimated Employment:	50
2026 Projected Employment:	46
Growth Rate, 2016-2026:	-8.0%
Annual Openings:	5

Industry	2016 Share	2026 Share
313 Textile Mills	n	n
331 Primary Metal Manufacturing	n	n

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
331 Primary Metal Manufacturing	100.0%	100.0%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
334 Computer and Electronic Product Manufacturing	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
331 Primary Metal Manufacturing	100.0%	100.0%

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

2017 Average Wage:	\$16.24
2016 Estimated Employment:	193
2026 Projected Employment:	147
Growth Rate, 2016-2026:	-23.8%
Annual Openings:	14

Industry	2016 Share	2026 Share
331 Primary Metal Manufacturing	97.9%	98.0%
326 Plastics and Rubber Products Manufacturing	2.1%	2.0%

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

2017 Average Wage:	\$15.48
2016 Estimated Employment:	1,642
2026 Projected Employment:	1,375
Growth Rate, 2016-2026:	-16.3%
Annual Openings:	142

Industry	2016 Share	2026 Share
326 Plastics and Rubber Products Manufacturing	84.8%	85.0%
331 Primary Metal Manufacturing	6.2%	5.7%
332 Fabricated Metal Product Manufacturing	4.0%	4.1%
334 Computer and Electronic Product Manufacturing	1.7%	1.6%
5613 Employment Services	1.5%	1.8%
313 Textile Mills	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

2017 Average Wage:	\$21.28
2016 Estimated Employment:	886
2026 Projected Employment:	867
Growth Rate, 2016-2026:	-2.1%
Annual Openings:	91

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	37.7%	36.8%
335 Electrical Equipment and Appliance Manufacturing	26.6%	25.4%
336 Transportation Equipment Manufacturing	24.8%	27.2%
326 Plastics and Rubber Products Manufacturing	3.8%	3.7%
334 Computer and Electronic Product Manufacturing	n	n
339 Miscellaneous 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: Postsecondary | none | Long OJT

2017 Average Wage:	\$27.06
2016 Estimated Employment:	333
2026 Projected Employment:	310
Growth Rate, 2016-2026:	-6.9%
Annual Openings:	29

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	26.7%	27.1%
326 Plastics and Rubber Products Manufacturing	24.6%	22.9%
333 Machinery Manufacturing	17.4%	17.4%
335 Electrical Equipment and Appliance Manufacturing	7.8%	8.4%
334 Computer and Electronic Product Manufacturing	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

2017 Average Wage:	\$22.50
2016 Estimated Employment:	922
2026 Projected Employment:	960
Growth Rate, 2016-2026:	4.1%
Annual Openings:	103

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	47.7%	46.5%
811 Repair and Maintenance	9.0%	9.9%
336 Transportation Equipment Manufacturing	6.7%	7.2%
238 Specialty Trade Contractors	6.5%	6.9%
334 Computer and Electronic Product Manufacturing	6.5%	5.8%
333 Machinery Manufacturing	6.4%	6.7%

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

2017 Average Wage:	\$17.45
2016 Estimated Employment:	273
2026 Projected Employment:	240
Growth Rate, 2016-2026:	-12.1%
Annual Openings:	24

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	71.4%	70.0%
Self-employed Workers	4.8%	5.8%
238 Specialty Trade Contractors	n	n
331 Primary Metal Manufacturing	n	n
334 Computer and Electronic Product Manufacturing	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

2017 Average Wage:	\$19.09
2016 Estimated Employment:	132
2026 Projected Employment:	113
Growth Rate, 2016-2026:	-14.4%
Annual Openings:	10

Industry	2016 Share	2026 Share
339 Miscellaneous Manufacturing	43.9%	42.5%
332 Fabricated Metal Product Manufacturing	35.6%	35.4%
Self-employed Workers	0.8%	0.9%
326 Plastics and Rubber Products Manufacturing	n	n
335 Electrical Equipment and Appliance 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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
326 Plastics and Rubber Products Manufacturing	n	n
332 Fabricated Metal Product 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

2017 Average Wage:	\$16.43
2016 Estimated Employment:	94
2026 Projected Employment:	77
Growth Rate, 2016-2026:	-18.1%
Annual Openings:	6

Industry	2016 Share	2026 Share
334 Computer and Electronic Product Manufacturing	64.9%	61.0%
332 Fabricated Metal Product Manufacturing	16.0%	16.9%
335 Electrical Equipment and Appliance Manufacturing	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

2017 Average Wage:	\$21.37
2016 Estimated Employment:	47
2026 Projected Employment:	48
Growth Rate, 2016-2026:	2.1%
Annual Openings:	5

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	38.3%	39.6%
811 Repair and Maintenance	27.7%	25.0%
321 Wood Product Manufacturing	23.4%	22.9%
333 Machinery Manufacturing	n	n
334 Computer and Electronic Product Manufacturing	n	n
5613 Employment Services	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

2017 Average Wage:	\$15.86
2016 Estimated Employment:	719
2026 Projected Employment:	629
Growth Rate, 2016-2026:	-12.5%
Annual Openings:	63

Industry	2016 Share	2026 Share
331 Primary Metal Manufacturing	39.1%	38.3%
339 Miscellaneous Manufacturing	24.5%	23.4%
332 Fabricated Metal Product Manufacturing	17.7%	17.8%
326 Plastics and Rubber Products Manufacturing	7.2%	7.3%
333 Machinery Manufacturing	5.0%	5.6%
336 Transportation Equipment Manufacturing	n	n

51-5111 Prepress Technicians and Workers



Format and proof text and images submitted by designers and clients into finished pages. *Examples: Digital Proofing and Platemaker; Photoengraver; PlateMounter*

Training Category: Postsecondary | none | none

2017 Average Wage:	\$19.64
2016 Estimated Employment:	106
2026 Projected Employment:	89
Growth Rate, 2016-2026:	-16.0%
Annual Openings:	9

Industry	2016 Share	2026 Share
323 Printing and Related Support Activities	73.6%	70.8%
5613 Employment Services	12.3%	15.7%
511 Publishing Industries (except Internet)	4.7%	3.4%
Self-employed Workers	3.8%	3.4%
334 Computer and Electronic Product Manufacturing	n	n
6113 Colleges and Universities	n	n

51-5112 Printing Press Operators



Set up and operate digital, letterpress, lithographic, flexographic, gravure, or other printing machines. *Examples: Gravure Press Operator; Offset Press Operator*

Training Category: High School | none | Moderate OJT

2017 Average Wage:	\$20.36
2016 Estimated Employment:	1,025
2026 Projected Employment:	993
Growth Rate, 2016-2026:	-3.1%
Annual Openings:	102

Industry	2016 Share	2026 Share
323 Printing and Related Support Activities	68.3%	67.0%
524 Insurance Carriers and Related Activities	11.0%	12.3%
Self-employed Workers	4.5%	4.0%
313 Textile Mills	n	n
339 Miscellaneous Manufacturing	n	n
5418 Advertising, Public Relations, and Related Services	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 | Moderate OJT

2017 Average Wage:	\$16.46
2016 Estimated Employment:	113
2026 Projected Employment:	108
Growth Rate, 2016-2026:	-4.4%
Annual Openings:	14

Industry	2016 Share	2026 Share
323 Printing and Related Support Activities	92.9%	92.6%
Self-employed Workers	2.7%	2.8%
State Government, excl. Education and Hospitals	1.8%	1.9%
5614 Business Support 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

2017 Average Wage:	\$11.84
2016 Estimated Employment:	978
2026 Projected Employment:	976
Growth Rate, 2016-2026:	-0.2%
Annual Openings:	132

Industry	2016 Share	2026 Share
812 Personal and Laundry Services	54.5%	51.6%
721 Accommodation	14.9%	14.9%
623 Nursing and Residential Care Facilities	8.2%	8.8%
Local Government, Excluding Education	7.3%	7.7%
5612 Facilities Support Services	4.8%	5.9%
Self-employed Workers	4.0%	4.4%

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

2017 Average Wage:	\$10.71
2016 Estimated Employment:	238
2026 Projected Employment:	225
Growth Rate, 2016-2026:	-5.5%
Annual Openings:	28

Industry		2016 Share	2026 Share
323	Printing and Related Support Activities	n	n
812	Personal and Laundry Services	n	n

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

2017 Average Wage:	\$14.41
2016 Estimated Employment:	535
2026 Projected Employment:	491
Growth Rate, 2016-2026:	-8.2%
Annual Openings:	50

Industry		2016 Share	2026 Share
315	Apparel Manufacturing	48.0%	46.8%
314	Textile Product Mills	18.7%	17.7%
	Self-employed Workers	8.6%	7.7%
323	Printing and Related Support Activities	7.1%	7.3%
339	Miscellaneous Manufacturing	n	n
5613	Employment Services	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	Self-employed Workers	n	n
316	Leather and Allied Product Manufacturing	n	n
448	Clothing and Clothing Accessories Stores	n	n

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	Self-employed Workers	n	n
314	Textile Product Mills	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

2017 Average Wage:	\$17.61
2016 Estimated Employment:	113
2026 Projected Employment:	105
Growth Rate, 2016-2026:	-7.1%
Annual Openings:	13

Industry	2016 Share	2026 Share
Self-employed Workers	48.7%	46.7%
811 Repair and Maintenance	10.6%	11.4%
812 Personal and Laundry Services	6.2%	6.7%
315 Apparel Manufacturing	n	n
323 Printing and Related Support Activities	n	n
448 Clothing and Clothing Accessories Stores	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

2017 Average Wage:	\$16.07
2016 Estimated Employment:	83
2026 Projected Employment:	80
Growth Rate, 2016-2026:	-3.6%
Annual Openings:	9

Industry	2016 Share	2026 Share
313 Textile Mills	91.6%	91.3%
Self-employed Workers	n	n
5613 Employment Services	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

2017 Average Wage:	\$15.84
2016 Estimated Employment:	93
2026 Projected Employment:	87
Growth Rate, 2016-2026:	-6.5%
Annual Openings:	11

Industry	2016 Share	2026 Share
313 Textile Mills	48.4%	50.6%
315 Apparel Manufacturing	38.7%	37.9%
314 Textile Product Mills	12.9%	11.5%

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

2017 Average Wage:	\$15.74
2016 Estimated Employment:	67
2026 Projected Employment:	65
Growth Rate, 2016-2026:	-3.0%
Annual Openings:	8

Industry	2016 Share	2026 Share
313 Textile Mills	97.0%	96.9%
Self-employed Workers	3.0%	3.1%

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

2017 Average Wage:	\$13.99
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	Self-employed Workers	n	n
313	Textile Mills	n	n
314	Textile Product 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

2017 Average Wage:	\$17.53
2016 Estimated Employment:	156
2026 Projected Employment:	150
Growth Rate, 2016-2026:	-3.9%
Annual Openings:	17

Industry		2016 Share	2026 Share
313	Textile Mills	96.2%	96.7%
	Self-employed Workers	3.9%	3.3%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
238	Specialty Trade Contractors	n	n
314	Textile Product Mills	n	n
315	Apparel Manufacturing	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

2017 Average Wage:	\$21.46
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	Self-employed Workers	n	n
485	Transit and Ground Passenger Transportation	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

2017 Average Wage:	\$14.81
2016 Estimated Employment:	46
2026 Projected Employment:	44
Growth Rate, 2016-2026:	-4.4%
Annual Openings:	5

Industry		2016 Share	2026 Share
313	Textile Mills	69.6%	70.5%
5613	Employment Services	15.2%	15.9%
316	Leather and Allied Product Manufacturing	6.5%	6.8%
	Self-employed Workers	4.4%	2.3%
314	Textile Product Mills	2.2%	2.3%
812	Personal and Laundry Services	2.2%	2.3%

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

2017 Average Wage:	\$17.73
2016 Estimated Employment:	531
2026 Projected Employment:	488
Growth Rate, 2016-2026:	-8.1%
Annual Openings:	48

Industry		2016 Share	2026 Share
337	Furniture and Related Product Manufacturing	67.4%	63.5%
444	Building Material and Garden Supply Stores	10.0%	11.3%
	Self-employed Workers	9.0%	9.4%
321	Wood Product Manufacturing	6.6%	7.0%
236	Construction of Buildings	n	n
238	Specialty Trade Contractors	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

2017 Average Wage:	\$19.53
2016 Estimated Employment:	36
2026 Projected Employment:	34
Growth Rate, 2016-2026:	-5.6%
Annual Openings:	3

Industry		2016 Share	2026 Share
442	Furniture and Home Furnishings Stores	33.3%	32.4%
321	Wood Product Manufacturing	22.2%	23.5%
	Self-employed Workers	19.4%	20.6%
337	Furniture and Related Product Manufacturing	16.7%	14.7%
811	Repair and Maintenance	8.3%	8.8%

51-7031 Model Makers, Wood



Construct full-size and scale wooden precision models of products. Includes wood jig builders and loft workers.

Training Category: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	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 | Moderate OJT

2017 Average Wage:	\$15.13
2016 Estimated Employment:	246
2026 Projected Employment:	239
Growth Rate, 2016-2026:	-2.9%
Annual Openings:	27

Industry		2016 Share	2026 Share
321	Wood Product Manufacturing	93.5%	93.7%
	Self-employed Workers	n	n
337	Furniture and Related Product Manufacturing	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 | Moderate OJT

2017 Average Wage:	\$15.75
2016 Estimated Employment:	614
2026 Projected Employment:	575
Growth Rate, 2016-2026:	-6.4%
Annual Openings:	60

Industry		2016 Share	2026 Share
321	Wood Product Manufacturing	48.1%	49.9%
337	Furniture and Related Product Manufacturing	20.7%	18.8%
339	Miscellaneous Manufacturing	19.4%	18.8%
326	Plastics and Rubber Products Manufacturing	n	n
423	Merchant Wholesalers, Durable Goods	n	n
444	Building Material and Garden Supply Stores	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
	Self-employed Workers	n	n
337	Furniture and Related Product 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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
221	Utilities	100.0%	100.0%

51-8012 Power Distributors and Dispatchers



Coordinate, regulate, or distribute electricity or steam.

Training Category: High School | none | Long OJT

2017 Average Wage:	\$43.94
2016 Estimated Employment:	52
2026 Projected Employment:	54
Growth Rate, 2016-2026:	3.9%
Annual Openings:	4

Industry		2016 Share	2026 Share
551	Management of Companies and Enterprises	100.0%	100.0%

51-8013 Power Plant 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

2017 Average Wage:	\$29.23
2016 Estimated Employment:	163
2026 Projected Employment:	163
Growth Rate, 2016-2026:	0.0%
Annual Openings:	14

Industry		2016 Share	2026 Share
221	Utilities	100.0%	100.0%

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

2017 Average Wage:	\$27.84
2016 Estimated Employment:	121
2026 Projected Employment:	126
Growth Rate, 2016-2026:	4.1%
Annual Openings:	13

Industry		2016 Share	2026 Share
622	Hospitals	22.3%	22.2%
6113	Colleges and Universities	17.4%	17.5%
221	Utilities	n	n
312	Beverage and Tobacco Product Manufacturing	n	n
313	Textile Mills	n	n
6111	Elementary and Secondary Schools	n	n

51-8031 Water and Wastewater Treatment Plant and System Operators



Operate or control an entire process or system of machines to transfer or treat water or wastewater. Examples: Liquid Waste Treatment Plant Operator; Sewage Plant Operator

Training Category: High School | none | Long OJT

2017 Average Wage:	\$25.27
2016 Estimated Employment:	379
2026 Projected Employment:	362
Growth Rate, 2016-2026:	-4.5%
Annual Openings:	29

Industry		2016 Share	2026 Share
Local Government, Excluding Education		81.3%	80.7%
221	Utilities	10.0%	10.8%
State Government, excl. Education and Hospitals		3.4%	3.3%
336	Transportation Equipment Manufacturing	n	n
423	Merchant Wholesalers, Durable Goods	n	n
6113	Colleges and Universities	n	n

51-8091 Chemical Plant and System Operators



Control or operate entire chemical processes or system of machines. *Examples: Nitric Acid Plant Operator; Pharmaceutical Manufacturing Machine Operator*

Training Category: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
325 Chemical Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n
424 Merchant Wholesalers, Nondurable Goods	n	n
562 Waste Management and Remediation Services	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
221 Utilities	100.0%	100.0%

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 | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
425 Wholesale Electronic Markets and Agents/Brokers	n	n
Federal Government, Excluding Post Office	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 | Moderate OJT

2017 Average Wage:	\$27.35
2016 Estimated Employment:	58
2026 Projected Employment:	62
Growth Rate, 2016-2026:	6.9%
Annual Openings:	5

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	8.6%	8.1%
212 Mining (except Oil and Gas)	n	n
324 Petroleum and Coal Products Manufacturing	n	n
327 Nonmetallic Mineral Product Manufacturing	n	n
551 Management of Companies and Enterprises	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

2017 Average Wage:	\$20.42
2016 Estimated Employment:	309
2026 Projected Employment:	330
Growth Rate, 2016-2026:	6.8%
Annual Openings:	36

Industry	2016 Share	2026 Share
325 Chemical Manufacturing	49.5%	53.6%
313 Textile Mills	n	n
332 Fabricated Metal Product Manufacturing	n	n
333 Machinery Manufacturing	n	n
334 Computer and Electronic Product Manufacturing	n	n
5413 Architectural and Engineering Services	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

2017 Average Wage:	\$23.63
2016 Estimated Employment:	273
2026 Projected Employment:	297
Growth Rate, 2016-2026:	8.8%
Annual Openings:	32

Industry	2016 Share	2026 Share
312 Beverage and Tobacco Product Manufacturing	44.0%	42.8%
212 Mining (except Oil and Gas)	n	n
311 Food Manufacturing	n	n
325 Chemical Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	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

2017 Average Wage:	\$18.62
2016 Estimated Employment:	201
2026 Projected Employment:	204
Growth Rate, 2016-2026:	1.5%
Annual Openings:	22

Industry	2016 Share	2026 Share
327 Nonmetallic Mineral Product Manufacturing	29.4%	28.9%
212 Mining (except Oil and Gas)	n	n
237 Heavy and Civil Engineering Construction	n	n
423 Merchant Wholesalers, Durable Goods	n	n
425 Wholesale Electronic Markets and Agents/Brokers	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

2017 Average Wage:	\$15.15
2016 Estimated Employment:	209
2026 Projected Employment:	163
Growth Rate, 2016-2026:	-22.0%
Annual Openings:	16

Industry	2016 Share	2026 Share
326 Plastics and Rubber Products Manufacturing	n	n
327 Nonmetallic Mineral Product Manufacturing	n	n
331 Primary Metal Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n
5613 Employment Services	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

2017 Average Wage:	\$19.83
2016 Estimated Employment:	322
2026 Projected Employment:	327
Growth Rate, 2016-2026:	1.6%
Annual Openings:	36

Industry	2016 Share	2026 Share
327 Nonmetallic Mineral Product Manufacturing	18.0%	19.0%
325 Chemical Manufacturing	14.3%	16.2%
322 Paper Manufacturing	13.4%	9.8%
332 Fabricated Metal Product Manufacturing	12.7%	12.5%
5417 Scientific Research and Development Services	10.3%	11.6%
326 Plastics and Rubber Products Manufacturing	9.6%	8.9%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
315 Apparel Manufacturing	n	n
326 Plastics and Rubber Products Manufacturing	n	n
337 Furniture and Related Product Manufacturing	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 | Moderate OJT

2017 Average Wage:	\$18.68
2016 Estimated Employment:	281
2026 Projected Employment:	275
Growth Rate, 2016-2026:	-2.1%
Annual Openings:	30

Industry	2016 Share	2026 Share
327 Nonmetallic Mineral Product Manufacturing	31.3%	33.8%
326 Plastics and Rubber Products Manufacturing	29.2%	27.6%
238 Specialty Trade Contractors	n	n
322 Paper Manufacturing	n	n
323 Printing and Related Support Activities	n	n
425 Wholesale Electronic Markets and Agents/Brokers	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

2017 Average Wage:	\$16.52
2016 Estimated Employment:	581
2026 Projected Employment:	559
Growth Rate, 2016-2026:	-3.8%
Annual Openings:	66

Industry	2016 Share	2026 Share
339 Miscellaneous Manufacturing	44.2%	42.0%
326 Plastics and Rubber Products Manufacturing	27.0%	25.6%
336 Transportation Equipment Manufacturing	12.1%	14.1%
327 Nonmetallic Mineral Product Manufacturing	8.4%	9.1%
321 Wood Product Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	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

2017 Average Wage:	\$21.04
2016 Estimated Employment:	48
2026 Projected Employment:	49
Growth Rate, 2016-2026:	2.1%
Annual Openings:	5

Industry	2016 Share	2026 Share
Self-employed Workers	n	n
212 Mining (except Oil and Gas)	n	n
313 Textile Mills	n	n
321 Wood Product Manufacturing	n	n
336 Transportation Equipment Manufacturing	n	n
562 Waste Management and Remediation Services	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

2017 Average Wage:	\$20.83
2016 Estimated Employment:	3,440
2026 Projected Employment:	2,919
Growth Rate, 2016-2026:	-15.2%
Annual Openings:	323

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	21.0%	19.9%
334 Computer and Electronic Product Manufacturing	16.9%	14.7%
335 Electrical Equipment and Appliance Manufacturing	7.6%	7.2%
326 Plastics and Rubber Products Manufacturing	5.8%	5.2%
333 Machinery Manufacturing	5.4%	5.4%
5613 Employment Services	5.0%	5.1%

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

2017 Average Wage:	\$20.01
2016 Estimated Employment:	121
2026 Projected Employment:	111
Growth Rate, 2016-2026:	-8.3%
Annual Openings:	11

Industry	2016 Share	2026 Share
448 Clothing and Clothing Accessories Stores	41.3%	45.1%
Self-employed Workers	27.3%	27.9%
339 Miscellaneous Manufacturing	19.8%	14.4%
453 Miscellaneous Store Retailers	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

2017 Average Wage:	\$22.07
2016 Estimated Employment:	120
2026 Projected Employment:	128
Growth Rate, 2016-2026:	6.7%
Annual Openings:	14

Industry	2016 Share	2026 Share
339 Miscellaneous Manufacturing	80.8%	78.9%
621 Ambulatory Health Care Services	17.5%	19.5%
Self-employed Workers	1.7%	1.6%

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 | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
339	Miscellaneous Manufacturing	n	n
621	Ambulatory Health Care Services	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

2017 Average Wage:	\$15.79
2016 Estimated Employment:	167
2026 Projected Employment:	180
Growth Rate, 2016-2026:	7.8%
Annual Openings:	21

Industry		2016 Share	2026 Share
446	Health and Personal Care Stores	29.3%	32.2%
621	Ambulatory Health Care Services	14.4%	15.6%
	Self-employed Workers	1.8%	1.7%
333	Machinery Manufacturing	n	n
339	Miscellaneous Manufacturing	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

2017 Average Wage:	\$17.28
2016 Estimated Employment:	1,185
2026 Projected Employment:	1,259
Growth Rate, 2016-2026:	6.2%
Annual Openings:	146

Industry		2016 Share	2026 Share
312	Beverage and Tobacco Product Manufacturing	19.7%	19.8%
551	Management of Companies and Enterprises	17.1%	17.6%
5619	Other Support Services	13.3%	13.5%
5613	Employment Services	7.5%	7.7%
332	Fabricated Metal Product Manufacturing	6.4%	6.0%
311	Food Manufacturing	6.3%	6.2%

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

2017 Average Wage:	\$17.76
2016 Estimated Employment:	502
2026 Projected Employment:	494
Growth Rate, 2016-2026:	-1.6%
Annual Openings:	50

Industry		2016 Share	2026 Share
332	Fabricated Metal Product Manufacturing	29.7%	30.0%
313	Textile Mills	n	n
326	Plastics and Rubber Products Manufacturing	n	n
327	Nonmetallic Mineral Product Manufacturing	n	n
331	Primary Metal Manufacturing	n	n
337	Furniture and Related Product 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

2017 Average Wage:	\$18.19
2016 Estimated Employment:	69
2026 Projected Employment:	74
Growth Rate, 2016-2026:	7.3%
Annual Openings:	7

Industry	2016 Share	2026 Share
811 Repair and Maintenance	85.5%	85.1%
423 Merchant Wholesalers, Durable Goods	7.3%	8.1%
Self-employed Workers	4.4%	4.1%
441 Motor Vehicle and Parts Dealers	2.9%	2.7%

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

2017 Average Wage:	\$23.89
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
337 Furniture and Related Product Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n
5418 Advertising, Public Relations, and Related Services	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: High School | none | Moderate OJT

2017 Average Wage:	\$22.44
2016 Estimated Employment:	64
2026 Projected Employment:	60
Growth Rate, 2016-2026:	-6.3%
Annual Openings:	6

Industry	2016 Share	2026 Share
334 Computer and Electronic Product Manufacturing	96.9%	96.7%
Self-employed Workers	3.1%	3.3%

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

2017 Average Wage:	\$13.34
2016 Estimated Employment:	128
2026 Projected Employment:	106
Growth Rate, 2016-2026:	-17.2%
Annual Openings:	16

Industry	2016 Share	2026 Share
446 Health and Personal Care Stores	35.2%	33.0%
452 General Merchandise Stores	21.1%	21.7%
531 Real Estate	21.1%	23.6%
5419 Other Professional, Scientific, and Technical Services	7.0%	1.9%
512 Motion Picture and Sound Recording Industries	6.3%	9.4%
812 Personal and Laundry Services	4.7%	4.7%

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

2017 Average Wage:	\$17.21
2016 Estimated Employment:	95
2026 Projected Employment:	93
Growth Rate, 2016-2026:	-2.1%
Annual Openings:	10

Industry	2016 Share	2026 Share
323 Printing and Related Support Activities	n	n
332 Fabricated Metal Product Manufacturing	n	n
335 Electrical Equipment and Appliance Manufacturing	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: High School | none | Moderate OJT

2017 Average Wage:	\$16.60
2016 Estimated Employment:	156
2026 Projected Employment:	155
Growth Rate, 2016-2026:	-0.6%
Annual Openings:	20

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	84.6%	85.2%
323 Printing and Related Support Activities	n	n
331 Primary Metal Manufacturing	n	n
334 Computer and Electronic Product Manufacturing	n	n
335 Electrical Equipment and Appliance Manufacturing	n	n
5613 Employment Services	n	n

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

2017 Average Wage:	\$22.01
2016 Estimated Employment:	93
2026 Projected Employment:	93
Growth Rate, 2016-2026:	0.0%
Annual Openings:	11

Industry	2016 Share	2026 Share
339 Miscellaneous Manufacturing	69.9%	68.8%
311 Food Manufacturing	24.7%	25.8%
Self-employed Workers	2.2%	2.2%
312 Beverage and Tobacco Product Manufacturing	n	n
5417 Scientific Research and Development Services	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

2017 Average Wage:	\$14.61
2016 Estimated Employment:	108
2026 Projected Employment:	108
Growth Rate, 2016-2026:	0.0%
Annual Openings:	13

Industry	2016 Share	2026 Share
327 Nonmetallic Mineral Product Manufacturing	44.4%	46.3%
339 Miscellaneous Manufacturing	15.7%	12.0%
323 Printing and Related Support Activities	13.9%	13.0%
Self-employed Workers	9.3%	9.3%
332 Fabricated Metal Product Manufacturing	n	n
454 Nonstore Retailers	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

2017 Average Wage:	\$15.85
2016 Estimated Employment:	341
2026 Projected Employment:	358
Growth Rate, 2016-2026:	5.0%
Annual Openings:	37

Industry		2016 Share	2026 Share
327	Nonmetallic Mineral Product Manufacturing	35.5%	36.3%
326	Plastics and Rubber Products Manufacturing	16.1%	14.3%
	Self-employed Workers	7.3%	6.4%
551	Management of Companies and Enterprises	n	n
5613	Employment Services	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

2017 Average Wage:	\$23.89
2016 Estimated Employment:	189
2026 Projected Employment:	158
Growth Rate, 2016-2026:	-16.4%
Annual Openings:	14

Industry		2016 Share	2026 Share
322	Paper Manufacturing	86.2%	82.3%
323	Printing and Related Support Activities	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
326	Plastics and 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: High School | none | Short OJT

2017 Average Wage:	\$14.12
2016 Estimated Employment:	1,962
2026 Projected Employment:	2,377
Growth Rate, 2016-2026:	21.2%
Annual Openings:	365

Industry		2016 Share	2026 Share
5613	Employment Services	55.7%	64.2%
335	Electrical Equipment and Appliance Manufacturing	9.4%	7.9%
313	Textile Mills	6.2%	4.9%
332	Fabricated Metal Product Manufacturing	5.3%	4.4%
334	Computer and Electronic Product Manufacturing	3.6%	2.7%
326	Plastics and Rubber Products Manufacturing	3.1%	2.4%

51-9199 Production Workers, All Other



All production workers not listed separately. *Examples: Barrel Header; Mop Maker*

Training Category: High School | none | Moderate OJT

2017 Average Wage:	\$14.52
2016 Estimated Employment:	1,469
2026 Projected Employment:	1,548
Growth Rate, 2016-2026:	5.4%
Annual Openings:	177

Industry	2016 Share	2026 Share
5613 Employment Services	53.4%	55.9%
339 Miscellaneous Manufacturing	10.3%	8.9%
334 Computer and Electronic Product Manufacturing	5.9%	5.2%
332 Fabricated Metal Product Manufacturing	3.3%	3.2%
331 Primary Metal Manufacturing	3.3%	2.8%
335 Electrical Equipment and Appliance Manufacturing	3.2%	3.1%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
488 Support Activities for Transportation	n	n
492 Couriers and Messengers	n	n
811 Repair and Maintenance	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

2017 Average Wage:	\$23.44
2016 Estimated Employment:	438
2026 Projected Employment:	483
Growth Rate, 2016-2026:	10.3%
Annual Openings:	51

Industry	2016 Share	2026 Share
Local Government, Excluding Education	11.9%	11.4%
492 Couriers and Messengers	11.4%	10.8%
493 Warehousing and Storage	11.2%	12.8%
444 Building Material and Garden Supply Stores	10.1%	9.9%
811 Repair and Maintenance	9.1%	9.3%
532 Rental and Leasing Services	8.9%	8.3%

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

2017 Average Wage:	\$30.05
2016 Estimated Employment:	643
2026 Projected Employment:	702
Growth Rate, 2016-2026:	9.2%
Annual Openings:	74

Industry	2016 Share	2026 Share
485 Transit and Ground Passenger Transportation	16.0%	16.4%
492 Couriers and Messengers	10.9%	10.4%
424 Merchant Wholesalers, Nondurable Goods	10.0%	10.0%
484 Truck Transportation	8.9%	8.8%
812 Personal and Laundry Services	5.4%	6.4%
454 Nonstore Retailers	4.7%	3.9%

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's | < 5 yr | Moderate OJT

2017 Average Wage:	\$96,630
2016 Estimated Employment:	37
2026 Projected Employment:	40
Growth Rate, 2016-2026:	8.1%
Annual Openings:	3

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	29.7%	27.5%
488 Support Activities for Transportation	n	n
6115 Technical and Trade Schools	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

2017 Average Wage:	\$71,284
2016 Estimated Employment:	214
2026 Projected Employment:	220
Growth Rate, 2016-2026:	2.8%
Annual Openings:	21

Industry	2016 Share	2026 Share
481 Air Transportation	88.8%	86.8%
Self-employed Workers	2.8%	3.2%
327 Nonmetallic Mineral Product Manufacturing	n	n
488 Support Activities for Transportation	n	n
531 Real Estate	n	n
6116 Other Schools and Instruction	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

2017 Average Wage:	\$71.16
2016 Estimated Employment:	400
2026 Projected Employment:	403
Growth Rate, 2016-2026:	0.8%
Annual Openings:	37

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	97.8%	97.3%
488 Support Activities for Transportation	2.3%	2.7%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
Federal Government, Excluding Post Office	100.0%	100.0%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
327	Nonmetallic Mineral Product Manufacturing	100.0%	100.0%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
621	Ambulatory Health Care Services	n	n
622	Hospitals	n	n
	Local Government, Excluding Education	n	n

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

2017 Average Wage:	\$22.11
2016 Estimated Employment:	248
2026 Projected Employment:	276
Growth Rate, 2016-2026:	11.3%
Annual Openings:	35

Industry		2016 Share	2026 Share
485	Transit and Ground Passenger Transportation	72.6%	73.9%
	Local Government, Excluding Education	21.4%	20.3%
6111	Elementary and Secondary Schools	3.2%	2.9%
487	Scenic and Sightseeing Transportation	2.0%	2.2%

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

2017 Average Wage:	\$14.94
2016 Estimated Employment:	2,650
2026 Projected Employment:	2,979
Growth Rate, 2016-2026:	12.4%
Annual Openings:	369

Industry		2016 Share	2026 Share
485	Transit and Ground Passenger Transportation	81.8%	83.2%
	Local Government, Excluding Education	9.7%	9.0%
6111	Elementary and Secondary Schools	4.5%	3.6%
624	Social Assistance	n	n
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

2017 Average Wage:	\$14.71
2016 Estimated Employment:	2,516
2026 Projected Employment:	2,537
Growth Rate, 2016-2026:	0.8%
Annual Openings:	268

Industry	2016 Share	2026 Share
722 Food Services and Drinking Places	43.2%	39.3%
424 Merchant Wholesalers, Nondurable Goods	20.3%	23.4%
Self-employed Workers	7.0%	7.2%
441 Motor Vehicle and Parts Dealers	6.8%	7.5%
311 Food Manufacturing	4.7%	5.0%
812 Personal and Laundry Services	3.6%	3.4%

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

2017 Average Wage:	\$21.35
2016 Estimated Employment:	6,935
2026 Projected Employment:	7,505
Growth Rate, 2016-2026:	8.2%
Annual Openings:	817

Industry	2016 Share	2026 Share
484 Truck Transportation	18.5%	18.8%
454 Nonstore Retailers	12.0%	10.5%
424 Merchant Wholesalers, Nondurable Goods	8.5%	8.5%
238 Specialty Trade Contractors	8.0%	8.0%
Self-employed Workers	6.9%	6.6%
562 Waste Management and Remediation Services	6.8%	7.3%

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

2017 Average Wage:	\$15.71
2016 Estimated Employment:	4,910
2026 Projected Employment:	5,290
Growth Rate, 2016-2026:	7.7%
Annual Openings:	574

Industry	2016 Share	2026 Share
492 Couriers and Messengers	21.2%	22.3%
441 Motor Vehicle and Parts Dealers	20.9%	19.9%
484 Truck Transportation	7.8%	8.0%
Self-employed Workers	6.9%	6.6%
423 Merchant Wholesalers, Durable Goods	6.9%	7.3%
444 Building Material and Garden Supply Stores	5.7%	5.7%

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

2017 Average Wage:	\$12.19
2016 Estimated Employment:	1,810
2026 Projected Employment:	1,856
Growth Rate, 2016-2026:	2.5%
Annual Openings:	188

Industry	2016 Share	2026 Share
Self-employed Workers	32.9%	44.8%
485 Transit and Ground Passenger Transportation	29.5%	22.3%
441 Motor Vehicle and Parts Dealers	12.0%	10.6%
721 Accommodation	5.3%	4.3%
492 Couriers and Messengers	2.8%	2.5%
624 Social Assistance	2.5%	2.5%

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

2017 Average Wage:	\$13.44
2016 Estimated Employment:	282
2026 Projected Employment:	311
Growth Rate, 2016-2026:	10.3%
Annual Openings:	53

Industry		2016 Share	2026 Share
532	Rental and Leasing Services	21.6%	20.9%
713	Amusement, Gambling, and Recreation	11.0%	10.9%
441	Motor Vehicle and Parts Dealers	10.6%	11.3%
624	Social Assistance	10.6%	11.9%
423	Merchant Wholesalers, Durable Goods	8.9%	9.3%
484	Truck Transportation	8.5%	8.4%

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

2017 Average Wage:	\$20.00
2016 Estimated Employment:	29
2026 Projected Employment:	33
Growth Rate, 2016-2026:	13.8%
Annual Openings:	3

Industry		2016 Share	2026 Share
482	Rail Transportation	n	n
487	Scenic and Sightseeing Transportation	n	n

53-4013 Rail Yard Engineers, Dinkey Operators, and Hostlers



Drive switching or other locomotive or dinkey engines within railroad yard, industrial plant, quarry, construction project, or similar location.

Training Category: High School | none | Moderate OJT

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
487	Scenic and Sightseeing Transportation	100.0%	100.0%

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

2017 Average Wage:	\$22.61
2016 Estimated Employment:	27
2026 Projected Employment:	30
Growth Rate, 2016-2026:	11.1%
Annual Openings:	3

Industry		2016 Share	2026 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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
482 Rail Transportation	100.0%	100.0%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
488 Support Activities for Transportation	n	n
6113 Colleges and Universities	n	n
6116 Other Schools and Instruction	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

2017 Average Wage:	n/a
2016 Estimated Employment:	57
2026 Projected Employment:	63
Growth Rate, 2016-2026:	10.5%
Annual Openings:	7

Industry	2016 Share	2026 Share
487 Scenic and Sightseeing Transportation	61.4%	63.5%
Self-employed Workers	3.5%	3.2%
488 Support Activities for Transportation	n	n
6113 Colleges and Universities	n	n
6116 Other Schools and Instruction	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
5619 Other Support Services	100.0%	100.0%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
487 Scenic and Sightseeing Transportation	n	n
488 Support Activities for Transportation	n	n
Federal Government, Excluding Post Office	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	n	n
Local Government, Excluding 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

2017 Average Wage:	\$12.78
2016 Estimated Employment:	343
2026 Projected Employment:	364
Growth Rate, 2016-2026:	6.1%
Annual Openings:	54

Industry	2016 Share	2026 Share
812 Personal and Laundry Services	40.8%	40.4%
441 Motor Vehicle and Parts Dealers	16.9%	18.1%
721 Accommodation	9.3%	8.8%
Local Government, Excluding Education	7.6%	7.4%
423 Merchant Wholesalers, Durable Goods	n	n
713 Amusement, Gambling, and Recreation	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

2017 Average Wage:	\$11.27
2016 Estimated Employment:	434
2026 Projected Employment:	480
Growth Rate, 2016-2026:	10.6%
Annual Openings:	79

Industry	2016 Share	2026 Share
811 Repair and Maintenance	57.1%	58.3%
441 Motor Vehicle and Parts Dealers	15.7%	16.3%
447 Gasoline Stations	13.1%	12.3%
452 General Merchandise Stores	n	n
454 Nonstore Retailers	n	n
5613 Employment 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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
State Government, excl. Education and Hospitals	n	n
Local Government, Excluding 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

2017 Average Wage:	\$32.66
2016 Estimated Employment:	50
2026 Projected Employment:	52
Growth Rate, 2016-2026:	4.0%
Annual Openings:	5

Industry	2016 Share	2026 Share
488 Support Activities for Transportation	58.0%	59.6%
State Government, excl. Education and Hospitals	24.0%	23.1%
484 Truck Transportation	n	n
Federal Government, Excluding Post Office	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
423 Merchant Wholesalers, Durable Goods	n	n
424 Merchant Wholesalers, Nondurable Goods	n	n
488 Support Activities for Transportation	n	n
713 Amusement, Gambling, and Recreation	n	n
Federal Government, Excluding Post Office	n	n
State Government, excl. Education and Hospitals	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

2017 Average Wage:	\$16.51
2016 Estimated Employment:	36
2026 Projected Employment:	39
Growth Rate, 2016-2026:	8.3%
Annual Openings:	5

Industry	2016 Share	2026 Share
221 Utilities	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

2017 Average Wage:	\$23.02
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
237 Heavy and Civil Engineering Construction	n	n
238 Specialty Trade Contractors	n	n
321 Wood Product Manufacturing	n	n
423 Merchant Wholesalers, Durable Goods	n	n
811 Repair and Maintenance	n	n
5617 Services to Buildings and Dwellings	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

2017 Average Wage:	\$21.95
2016 Estimated Employment:	447
2026 Projected Employment:	470
Growth Rate, 2016-2026:	5.2%
Annual Openings:	52

Industry	2016 Share	2026 Share
238 Specialty Trade Contractors	14.3%	14.9%
562 Waste Management and Remediation Services	12.3%	11.9%
237 Heavy and Civil Engineering Construction	11.6%	12.8%
324 Petroleum and Coal Products Manufacturing	6.5%	6.6%
212 Mining (except Oil and Gas)	n	n
424 Merchant Wholesalers, Nondurable Goods	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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
332 Fabricated Metal Product Manufacturing	n	n
441 Motor Vehicle and Parts Dealers	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

2017 Average Wage:	\$19.13
2016 Estimated Employment:	1,538
2026 Projected Employment:	1,652
Growth Rate, 2016-2026:	7.4%
Annual Openings:	186

Industry	2016 Share	2026 Share
5613 Employment Services	23.2%	23.7%
424 Merchant Wholesalers, Nondurable Goods	12.7%	13.2%
493 Warehousing and Storage	8.8%	9.3%
332 Fabricated Metal Product Manufacturing	6.2%	5.8%
326 Plastics and Rubber Products Manufacturing	5.5%	4.9%
484 Truck Transportation	5.4%	5.5%

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

2017 Average Wage:	\$12.65
2016 Estimated Employment:	1,147
2026 Projected Employment:	1,291
Growth Rate, 2016-2026:	12.6%
Annual Openings:	183

Industry	2016 Share	2026 Share
811 Repair and Maintenance	36.5%	36.5%
441 Motor Vehicle and Parts Dealers	27.4%	28.0%
713 Amusement, Gambling, and Recreation	7.1%	7.0%
5613 Employment Services	6.6%	6.4%
532 Rental and Leasing Services	3.8%	3.6%
Self-employed Workers	3.7%	3.4%

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

2017 Average Wage:	\$14.10
2016 Estimated Employment:	6,778
2026 Projected Employment:	7,279
Growth Rate, 2016-2026:	7.4%
Annual Openings:	999

Industry	2016 Share	2026 Share
5613 Employment Services	16.8%	17.1%
492 Couriers and Messengers	13.5%	13.0%
424 Merchant Wholesalers, Nondurable Goods	7.3%	7.4%
423 Merchant Wholesalers, Durable Goods	6.2%	6.8%
444 Building Material and Garden Supply Stores	5.5%	5.5%
452 General Merchandise Stores	4.8%	4.6%

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

2017 Average Wage:	\$18.89
2016 Estimated Employment:	537
2026 Projected Employment:	600
Growth Rate, 2016-2026:	11.7%
Annual Openings:	83

Industry	2016 Share	2026 Share
493 Warehousing and Storage	46.6%	52.5%
335 Electrical Equipment and Appliance Manufacturing	11.6%	10.2%
5617 Services to Buildings and Dwellings	10.4%	10.0%
332 Fabricated Metal Product Manufacturing	7.8%	6.8%
313 Textile Mills	4.5%	3.8%
323 Printing and Related Support Activities	4.3%	3.5%

53-7064 Packers and Packers, Hand



Pack or package by hand a wide variety of products and materials. *Example: Boxer*

Training Category: none | none | Short OJT

2017 Average Wage:	\$11.63
2016 Estimated Employment:	2,099
2026 Projected Employment:	1,921
Growth Rate, 2016-2026:	-8.5%
Annual Openings:	282

Industry	2016 Share	2026 Share
445 Food and Beverage Stores	57.3%	50.2%
5613 Employment Services	8.4%	10.0%
311 Food Manufacturing	5.5%	6.3%
332 Fabricated Metal Product Manufacturing	4.4%	4.8%
424 Merchant Wholesalers, Nondurable Goods	3.5%	4.2%
454 Nonstore Retailers	2.8%	4.0%

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

2017 Average Wage:	n/a
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
486 Pipeline Transportation	100.0%	100.0%

53-7072 Pump Operators, Except Wellhead Pumps



Pump Operators, Except Wellhead Pumps

Training Category: High School | none | Moderate OJT

2017 Average Wage:	\$22.90
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry	2016 Share	2026 Share
424 Merchant Wholesalers, Nondurable Goods	n	n
454 Nonstore Retailers	n	n
562 Waste Management and Remediation Services	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

2017 Average Wage:	\$16.52
2016 Estimated Employment:	821
2026 Projected Employment:	884
Growth Rate, 2016-2026:	7.7%
Annual Openings:	107

Industry	2016 Share	2026 Share
Local Government, Excluding Education	63.1%	61.7%
562 Waste Management and Remediation Services	16.7%	18.1%
Self-employed Workers	12.4%	12.4%
5613 Employment Services	4.6%	4.8%
6113 Colleges and Universities	n	n
622 Hospitals	n	n

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

2017 Average Wage:	\$17.04
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
423	Merchant Wholesalers, Durable Goods	100.0%	100.0%

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

2017 Average Wage:	\$17.04
2016 Estimated Employment:	n
2026 Projected Employment:	n
Growth Rate, 2016-2026:	n
Annual Openings:	n

Industry		2016 Share	2026 Share
423	Merchant Wholesalers, Durable Goods	n	n
484	Truck Transportation	n	n
562	Waste Management and Remediation Services	n	n
622	Hospitals	n	n
721	Accommodation	n	n