2018 OEWS (Occupational) Structure

For use with 2020 Occupational Employment and Wage Statistics Estimates

11-0000  Management Occupations
13-0000  Business and Financial Operations Occupations
15-0000  Computer and Mathematical Occupations
17-0000  Architecture and Engineering Occupations
19-0000  Life, Physical, and Social Science Occupations
21-0000  Community and Social Service Occupations
23-0000  Legal Occupations
25-0000  Educational Instruction and Library Occupations
27-0000  Arts, Design, Entertainment, Sports, and Media Occupations
29-0000  Healthcare Practitioners and Technical Occupations
31-0000  Healthcare Support Occupations
33-0000  Protective Service Occupations
35-0000  Food Preparation and Serving Related Occupations
37-0000  Building and Grounds Cleaning and Maintenance Occupations
39-0000  Personal Care and Service Occupations
41-0000  Sales and Related Occupations
43-0000  Office and Administrative Support Occupations
45-0000  Farming, Fishing, and Forestry Occupations
47-0000  Construction and Extraction Occupations
49-0000  Installation, Maintenance, and Repair Occupations
51-0000  Production Occupations
53-0000  Transportation and Material Moving Occupations

Color Key:
Black font:  SOC major group, minor group, or broad occupation (do not code to)

Code to:
Blue font:  OES survey code and title – SOC based
Red font:   R&D breakouts - use only in NAICS 6112 and 6113 – non-SOC based
Green font: OES Aggregation – SOC broad occupation or OES-specific code and title
Gray font:  Optional code – estimates rolled up to SOC broad occupation or OES-specific code
SOC Classification Principles

The SOC Classification Principles form the basis on which the SOC system is structured.

1. The SOC covers all occupations in which work is performed for pay or profit, including work performed in family-operated enterprises by family members who are not directly compensated. It excludes occupations unique to volunteers. Each occupation is assigned to only one occupational category at the most detailed level of the classification.

2. Occupations are classified based on work performed and, in some cases, on the skills, education and/or training needed to perform the work.

3. Workers primarily engaged in planning and the directing of resources are classified in management occupations in Major Group 11–0000. Duties of these workers may include supervision.

4. Supervisors of workers in Major Groups 13–0000 through 29–0000 usually have work experience and perform activities similar to those of the workers they supervise, and therefore are classified with the workers they supervise.

5. Workers in Major Group 31–0000 Healthcare Support Occupations assist and are usually supervised by workers in Major Group 29–0000 Healthcare Practitioners and Technical Occupations, and therefore there are no first-line supervisor occupations in Major Group 31–0000.

6. Workers in Major Groups 33–0000 through 53–0000 whose primary duty is supervising are classified in the appropriate first-line supervisor category because their work activities are distinct from those of the workers they supervise.

7. Apprentices and trainees are classified with the occupations for which they are being trained, while helpers and aides are classified separately because they are not in training for the occupation they are helping.

8. If an occupation is not included as a distinct detailed occupation in the structure, it is classified in an appropriate “All Other” occupation. “All Other” occupations are placed in the structure when it is determined that the detailed occupations comprising a broad occupation group do not account for all of the workers in the group, even though such workers may perform a distinct set of work activities. These occupations appear as the last occupation in the group with a code ending in “9” and are identified in their title by having “All Other” appear at the end.

9. The U.S. Bureau of Labor Statistics and the U.S. Census Bureau are charged with collecting and reporting data on total U.S. employment across the full spectrum of SOC Major Groups. Thus, for a detailed occupation to be included in the SOC, either the Bureau of Labor Statistics or the Census Bureau must be able to collect and report data on that occupation.

10. To maximize the comparability of data, time series continuity is maintained to the extent possible.
SOC Coding Guidelines

The following SOC coding guidelines are intended to assist users in consistently assigning SOC codes and titles to survey responses and in other coding activities.

1. A worker should be assigned to an SOC occupation code based on work performed.

2. When workers in a single job could be coded in more than one occupation, they should be coded in the occupation that requires the highest level of skill. If there is no measurable difference in skill requirements, workers should be coded in the occupation in which they spend the most time. Workers whose job is to teach at different levels (e.g., elementary, middle, or secondary) should be coded in the occupation corresponding to the highest educational level they teach.

3. Data collection and reporting agencies should assign workers to the most detailed occupation possible. Different agencies may use different levels of aggregation, depending on their ability to collect data.

4. Workers who perform activities not described in any distinct detailed occupation in the SOC structure should be coded in an appropriate “All Other” occupation. These occupations appear as the last occupation in a group with a code ending in “9” and are identified by having the words “All Other” appear at the end of the title.

5. Workers in Major Groups 33–0000 through 53–0000 who spend 80 percent or more of their time performing supervisory activities are coded in the appropriate first-line supervisor category in the SOC. In these same Major Groups (33–0000 through 53–0000), persons with supervisory duties who spend less than 80 percent of their time supervising are coded with the workers they supervise.

6. Licensed and non-licensed workers performing the same work should be coded together in the same detailed occupation, except where specified otherwise in the SOC definition.
11-0000 Management Occupations

11-1000 Top Executives
   11-1011 Chief Executives
   11-1021 General and Operations Managers
   11-1031 Legislators

11-2000 Advertising, Marketing, Promotions, Public Relations, & Sales Managers
   11-2011 Advertising and Promotions Managers
   11-2021 Marketing Managers
   11-2022 Sales Managers
   11-2032 Public Relations Managers
   11-2033 Fundraising Managers

11-3000 Operations Specialties Managers
   11-3012 Administrative Services Managers
   11-3013 Facilities Managers
   11-3021 Computer and Information Systems Managers
   11-3031 Financial Managers
   11-3051 Industrial Production Managers
   11-3061 Purchasing Managers
   11-3071 Transportation, Storage, and Distribution Managers
   11-3111 Compensation and Benefits Managers
   11-3121 Human Resources Managers
   11-3131 Training and Development Managers

11-9000 Other Management Occupations
   11-9013 Farmers, Ranchers, and Other Agricultural Managers
   11-9021 Construction Managers
   11-9030 Education and Childcare Administrators
      11-9031 Education and Childcare Administrators, Preschool and Daycare
      11-9032 Education Administrators, Kindergarten through Secondary
      11-9033 Education Administrators, Postsecondary
      11-9039 Education Administrators, All Other
      11-9041 Architectural and Engineering Managers
      11-9051 Food Service Managers
      11-9070 Entertainment and Recreation Managers
         11-9071 Gambling Managers
         11-9072 Entertainment and Recreation Managers, Except Gambling
         11-9081 Lodging Managers
      11-9111 Medical and Health Services Managers
      11-9121 Natural Sciences Managers
      11-9131 Postmasters and Mail Superintendents
      11-9141 Property, Real Estate, and Community Association Managers
      11-9151 Social and Community Service Managers
      11-9161 Emergency Management Directors
   11-9170 Personal Service Managers
      11-9171 Funeral Home Managers
      11-9179 Personal Service Managers, All Other
      11-9199 Managers, All Other
## 13-0000 Business and Financial Operations Occupations

### 13-1000 Business Operations Specialists
- **13-1011** Agents and Business Managers of Artists, Performers, and Athletes
- **13-1020** Buyers and Purchasing Agents (OES aggregation to SOC broad occupation)
  - **13-1021** Buyers and Purchasing Agents, Farm Products (Optional – estimates rolled up to 13-1020)
  - **13-1022** Wholesale and Retail Buyers, Except Farm Products (Optional – estimates rolled up to 13-1020)
  - **13-1023** Purchasing Agents, Except Wholesale, Retail, and Farm Products (Optional – estimates rolled up to 13-1020)
- **13-1031** Claims Adjusters, Examiners, and Investigators
- **13-1032** Insurance Appraisers, Auto Damage
- **13-1041** Compliance Officers
- **13-1051** Cost Estimators

### 13-1070 Human Resources Workers
- **13-1071** Human Resources Specialists
- **13-1074** Farm Labor Contractors
- **13-1075** Labor Relations Specialists
- **13-1081** Logisticians
- **13-1082** Project Management Specialists
- **13-1111** Management Analysts
- **13-1121** Meeting, Convention, and Event Planners
- **13-1131** Fundraisers
- **13-1141** Compensation, Benefits, and Job Analysis Specialists
- **13-1151** Training and Development Specialists
- **13-1161** Market Research Analysts and Marketing Specialists
- **13-1199** Business Operations Specialists, All Other

### 13-2000 Financial Specialists
- **13-2011** Accountants and Auditors
- **13-2020** Property Appraisers and Assessors (OES aggregation to SOC broad occupation)
  - **13-2022** Appraisers of Personal and Business Property (Optional – estimates rolled up to 13-2020)
  - **13-2023** Appraisers and Assessors of Real Estate (Optional – estimates rolled up to 13-2020)
- **13-2031** Budget Analysts
- **13-2041** Credit Analysts

### 13-2050 Financial Analysts and Advisors
- **13-2051** Financial and Investment Analysts
- **13-2052** Personal Financial Advisors
- **13-2053** Insurance Underwriters
- **13-2054** Financial Risk Specialists
- **13-2061** Financial Examiners
- **13-2071** Credit Counselors
- **13-2072** Loan Officers
- **13-2081** Tax Examiners and Collectors, and Revenue Agents
- **13-2082** Tax Preparers
- **13-2099** Financial Specialists, All Other
15-0000  Computer and Mathematical Occupations

15-1200  Computer Occupations
15-1211  Computer and Systems Analysts
15-1217  Computer Systems Analysts, Non R&D
15-1218  Computer Systems Analysts, R&D
15-1212  Information Security Analysts
15-1221  Computer and Information Research Scientists
15-1231  Computer Network Support Specialists
15-1232  Computer User Support Specialists
15-1240  Database and Network Administrators and Architects
15-1241  Computer Network Architects
15-1247  Computer Network Architects, Non R&D
15-1248  Computer Network Architects, R&D
15-1242  Database Administrators
15-1243  Database Architects
15-1244  Network and Computer Systems Administrators
15-1250  Software and Web Developers, Programmers, and Testers
15-1251  Computer Programmers
15-1293  Computer Programmers, Non R&D
15-1294  Computer Programmers, R&D
15-1252  Software Developers
15-1295  Software Developers, Non R&D
15-1296  Software Developers, R&D
15-1253  Software Quality Assurance Analysts and Testers
15-1297  Software Quality Assurance Analysts and Testers, Non R&D
15-1298  Software Quality Assurance Analysts and Testers, R&D
15-1254  Web Developers
15-1255  Web and Digital Interface Designers
15-1299  Computer Occupations, All Other

15-2000  Mathematical Science Occupations
15-2011  Actuaries
15-2021  Mathematicians
15-2031  Operations Research Analysts
15-2041  Statisticians
15-2051  Data Scientists
15-2099  Mathematical Science Occupations, All Other

1  R&D breakout- use only in NAICS 6112 and 6113
## 17-0000 Architecture and Engineering Occupations

### 17-1000 Architects, Surveyors, and Cartographers
- **17-1011** Architects, Except Landscape and Naval
- **17-1012** Landscape Architects
- **17-1021** Cartographers and Photogrammetrists
- **17-1022** Surveyors

### 17-2000 Engineers
- **17-2011** Aerospace Engineers
- **17-2021** Agricultural Engineers
- **17-2031** Bioengineers and Biomedical Engineers
- **17-2041** Chemical Engineers
- **17-2051** Civil Engineers
  - **17-2052** Civil Engineers, Non-R&D
  - **17-2053** Civil Engineers, R&D
- **17-2061** Computer Hardware Engineers
  - **17-2062** Computer Hardware Engineers, Non-R&D
  - **17-2063** Computer Hardware Engineers, R&D
- **17-2071** Electrical Engineers
  - **17-2073** Electrical Engineers, Non-R&D
  - **17-2074** Electrical Engineers, R&D
- **17-2072** Electronics Engineers, Except Computer
  - **17-2075** Electronics Engineers, Except Computer, Non-R&D
  - **17-2076** Electronics Engineers, Except Computer, R&D
- **17-2081** Environmental Engineers
- **17-2110** Industrial Engineers, Including Health and Safety
  - **17-2111** Health and Safety Engineers, Except Mining Safety Engineers and Inspectors
  - **17-2112** Industrial Engineers
  - **17-2121** Marine Engineers and Naval Architects
  - **17-2131** Materials Engineers
  - **17-2141** Mechanical Engineers
    - **17-2143** Mechanical Engineers, Non-R&D
    - **17-2144** Mechanical Engineers, R&D
  - **17-2151** Mining and Geological Engineers, Including Mining Safety Engineers
  - **17-2161** Nuclear Engineers
  - **17-2171** Petroleum Engineers
  - **17-2199** Engineers, All Other
17-0000 Architecture and Engineering Occupations

17-3000 Drafters, Engineering Technicians, and Mapping Technicians

17-3010 Drafters
17-3011 Architectural and Civil Drafters
17-3012 Electrical and Electronics Drafters
17-3013 Mechanical Drafters
17-3019 Drafters, All Other

17-3020 Engineering Technologists and Technicians, Except Drafters
17-3021 Aerospace Engineering and Operations Technologists and Technicians
17-3022 Civil Engineering Technologists and Technicians
17-3023 Electrical and Electronic Engineering Technologists and Technicians
17-3024 Electro-Mechanical and Mechatronics Technologists and Technicians
17-3025 Environmental Engineering Technologists and Technicians
17-3026 Industrial Engineering Technologists and Technicians
17-3027 Mechanical Engineering Technologists and Technicians
17-3028 Calibration Technologists and Technicians
17-3029 Engineering Technologists and Technicians, Except Drafters, All Other

17-3030 Surveying and Mapping Technicians
17-3031 Surveying and Mapping Technicians
19-0000  Life, Physical, and Social Science Occupations

19-1000  Life Scientists

19-1011  Animal Scientists
19-1012  Food Scientists and Technologists
19-1013  Soil and Plant Scientists

19-1020  Biological Scientists

19-1021  Biochemists and Biophysicists
19-1022  Microbiologists
19-1023  Zoologists and Wildlife Biologists
19-1029  Biological Scientists, All Other
19-1031  Conservation Scientists
19-1032  Foresters
19-1041  Epidemiologists
19-1042  Medical Scientists, Except Epidemiologists
19-1099  Life Scientists, All Other

19-2000  Physical Scientists

19-2011  Astronomers
19-2012  Physicists
19-2021  Atmospheric and Space Scientists
19-2031  Chemists
19-2032  Materials Scientists
19-2041  Environmental Scientists and Specialists, Including Health
19-2042  Geoscientists, Except Hydrologists and Geographers
19-2043  Hydrologists
19-2099  Physical Scientists, All Other

19-3000  Social Scientists and Related Workers

19-3011  Economists
19-3022  Survey Researchers

19-3030  Psychologists

19-3032  Industrial-Organizational Psychologists
19-3033  Clinical and Counseling Psychologists
19-3034  School Psychologists
19-3039  Psychologists, All Other
19-3041  Sociologists
19-3051  Urban and Regional Planners
19-3091  Anthropologists and Archeologists
19-3092  Geographers
19-3093  Historians
19-3094  Political Scientists
19-3099  Social Scientists and Related Workers, All Other
19-0000 Life, Physical, and Social Science Occupations

19-4000 Life, Physical, and Social Science Technicians

19-4010 Agricultural and Food Science Technicians
  19-4012 Agricultural Technicians
  19-4013 Food Science Technicians
19-4020 Biological Technicians
  19-4021 Biological Technicians
  19-4031 Chemical Technicians
19-4040 Environmental Science and Geoscience Technicians
  19-4042 Environmental Science and Protection Technicians, Including Health
  19-4043 Geological Technicians, Except Hydrologic Technicians
  19-4044 Hydrologic Technicians
  19-4051 Nuclear Technicians
  19-4061 Social Science Research Assistants
  19-4071 Forest and Conservation Technicians
  19-4092 Forensic Science Technicians
  19-4099 Life, Physical, and Social Science Technicians, All Other

19-5000 Occupational Health and Safety Specialists and Technicians

19-5011 Occupational Health and Safety Specialists
19-5012 Occupational Health and Safety Technicians
## 21-0000 Community and Social Service Occupations

### 21-1000 Counselors, Social Workers, and Other Community and Social Service Specialists

<table>
<thead>
<tr>
<th>Code</th>
<th>Occupation Description</th>
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<tbody>
<tr>
<td>21-1010</td>
<td><strong>Counselors</strong></td>
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<tr>
<td>21-1012</td>
<td>Educational, Guidance, and Career Counselors and Advisors</td>
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<td>Marriage and Family Therapists</td>
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<td>21-1015</td>
<td>Rehabilitation Counselors</td>
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<td>21-1018</td>
<td>Substance Abuse, Behavioral Disorder, and Mental Health Counselors (OES aggregation to OES-specific code and title)</td>
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<td>Substance Abuse and Behavioral Disorder Counselors (Optional – estimates rolled up to 21-1018)</td>
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<td>21-1014</td>
<td>Mental Health Counselors (Optional – estimates rolled up to 21-1018)</td>
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<td>Counselors, All Other</td>
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<tr>
<td>21-1020</td>
<td><strong>Social Workers</strong></td>
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<tr>
<td>21-1021</td>
<td>Child, Family, and School Social Workers</td>
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<td>21-1022</td>
<td>Healthcare Social Workers</td>
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<td>Mental Health and Substance Abuse Social Workers</td>
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<td>21-1029</td>
<td>Social Workers, All Other</td>
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<td>21-1090</td>
<td><strong>Miscellaneous Community and Social Service Specialists</strong></td>
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<td>21-1091</td>
<td>Health Education Specialists</td>
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<tr>
<td>21-1092</td>
<td>Probation Officers and Correctional Treatment Specialists</td>
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<td>21-1093</td>
<td>Social and Human Service Assistants</td>
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<td>Community Health Workers</td>
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### 21-2000 Religious Workers

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<td>21-2011</td>
<td>Clergy</td>
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<td>21-2021</td>
<td>Directors, Religious Activities and Education</td>
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<tr>
<td>21-2099</td>
<td>Religious Workers, All Other</td>
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</tbody>
</table>
# 23-0000 Legal Occupations

## 23-1000 Lawyers, Judges, and Related Workers

### 23-1010 Lawyers and Judicial Law Clerks
- 23-1011 Lawyers
- 23-1012 Judicial Law Clerks

### 23-1020 Judges, Magistrates, and Other Judicial Workers
- 23-1021 Administrative Law Judges, Adjudicators, and Hearing Officers
- 23-1022 Arbitrators, Mediators, and Conciliators
- 23-1023 Judges, Magistrate Judges, and Magistrates

## 23-2000 Legal Support Workers

### 23-2010 Paralegals and Legal Assistants

### 23-2090 Miscellaneous Legal Support Workers
- 23-2093 Title Examiners, Abstractors, and Searchers
- 23-2099 Legal Support Workers, All Other
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>25-0000</td>
<td><strong>Educational Instruction and Library Occupations</strong></td>
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<tr>
<td>25-1000</td>
<td><strong>Postsecondary Teachers</strong></td>
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<tr>
<td>25-1011</td>
<td>Business Teachers, Postsecondary</td>
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<tr>
<td>25-1021</td>
<td>Computer Science Teachers, Postsecondary</td>
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<td>Mathematical Science Teachers, Postsecondary</td>
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<td>25-1031</td>
<td>Architecture Teachers, Postsecondary</td>
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<td>Engineering Teachers, Postsecondary</td>
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<td>Agricultural Sciences Teachers, Postsecondary</td>
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<td>Biological Science Teachers, Postsecondary</td>
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<td>25-1043</td>
<td>Forestry and Conservation Science Teachers, Postsecondary</td>
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<td>25-1051</td>
<td>Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary</td>
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<td>Chemistry Teachers, Postsecondary</td>
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<td>25-1061</td>
<td>Anthropology and Archeology Teachers, Postsecondary</td>
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<td>Area, Ethnic, and Cultural Studies Teachers, Postsecondary</td>
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<td>Economics Teachers, Postsecondary</td>
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<td>25-1064</td>
<td>Geography Teachers, Postsecondary</td>
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<td>Political Science Teachers, Postsecondary</td>
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<td>Social Sciences Teachers, Postsecondary, All Other</td>
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<td>25-1071</td>
<td>Health Specialties Teachers, Postsecondary</td>
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<td>25-1072</td>
<td>Nursing Instructors and Teachers, Postsecondary</td>
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<td>Library Science Teachers, Postsecondary</td>
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<td>Criminal Justice and Law Enforcement Teachers, Postsecondary</td>
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<td>Law Teachers, Postsecondary</td>
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<td>25-1113</td>
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<td>Art, Drama, and Music Teachers, Postsecondary</td>
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<td>Communications Teachers, Postsecondary</td>
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<td>Philosophy and Religion Teachers, Postsecondary</td>
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<td>25-1192</td>
<td>Family and Consumer Sciences Teachers, Postsecondary</td>
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<td>Recreation and Fitness Studies Teachers, Postsecondary</td>
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<td>Career/Technical Education Teachers, Postsecondary</td>
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<td>25-1199</td>
<td>Postsecondary Teachers, All Other</td>
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</tbody>
</table>
**25-0000 Educational Instruction and Library Occupations**

### 25-2000 Preschool, Elementary, Middle, Secondary, and Special Education Teachers

- **25-2011** Preschool Teachers, Except Special Education
- **25-2012** Kindergarten Teachers, Except Special Education
- **25-2021** Elementary School Teachers, Except Special Education
- **25-2022** Middle School Teachers, Except Special and Career/Technical Education
- **25-2023** Career/Technical Education Teachers, Middle School
- **25-2031** Secondary School Teachers, Except Special and Career/Technical Education
- **25-2032** Career/Technical Education Teachers, Secondary School

### 25-2050 Special Education Teachers

- **25-2051** Special Education Teachers, Preschool
- **25-2052** Special Education Teachers, Kindergarten and Elementary School (OES aggregation to OES-specific code and title)
- **25-2055** Special Education Teachers, Kindergarten (Optional – estimates rolled up to 25-2052)
- **25-2056** Special Education Teachers, Elementary School (Optional – estimates rolled up to 25-2052)

- **25-2057** Special Education Teachers, Middle School
- **25-2058** Special Education Teachers, Secondary School
- **25-2059** Special Education Teachers, All Other

### 25-3000 Other Teachers and Instructors

- **25-3011** Adult Basic Education, Adult Secondary Education, and English as a Second Language Instructors
- **25-3021** Self-Enrichment Teachers
- **25-3031** Substitute Teachers, Short-Term
- **25-3041** Tutors
- **25-3099** Teachers and Instructors, All Other

### 25-4000 Librarians, Curators, and Archivists

- **25-4011** Archivists
- **25-4012** Curators
- **25-4013** Museum Technicians and Conservators
- **25-4022** Librarians and Media Collections Specialists
- **25-4031** Library Technicians

### 25-9000 Other Educational Instruction and Library Occupations

- **25-9021** Farm and Home Management Educators
- **25-9031** Instructional Coordinators
- **25-9040** Teaching Assistants
- **25-9042** Teaching Assistants, Preschool, Elementary, Middle, and Secondary School, Except Special Education
- **25-9043** Teaching Assistants, Special Education
- **25-9044** Teaching Assistants, Postsecondary
- **25-9049** Teaching Assistants, All Other
- **25-9099** Educational Instruction and Library Workers, All Other
### 27-0000 Arts, Design, Entertainment, Sports, and Media Occupations

#### 27-1000 Art and Design Workers
- **27-1010** Artists and Related Workers
  - **27-1011** Artists and Related Workers
  - **27-1012** Fine Artists, Including Painters, Sculptors, and Illustrators
  - **27-1013** Special Effects Artists and Animators
  - **27-1014** Artists and Related Workers, All Other
- **27-1020** Designers
  - **27-1021** Commercial and Industrial Designers
  - **27-1022** Fashion Designers
  - **27-1023** Floral Designers
  - **27-1024** Graphic Designers
  - **27-1025** Interior Designers
  - **27-1026** Merchandise Displayers and Window Trimmers
  - **27-1027** Set and Exhibit Designers
  - **27-1029** Designers, All Other

#### 27-2000 Entertainers and Performers, Sports and Related Workers
- **27-2010** Entertainers and Performers, Sports and Related Workers
  - **27-2011** Actors
  - **27-2012** Producers and Directors
  - **27-2021** Athletes and Sports Competitors
  - **27-2022** Coaches and Scouts
  - **27-2023** Umpires, Referees, and Other Sports Officials
  - **27-2031** Dancers
  - **27-2032** Choreographers
  - **27-2041** Music Directors and Composers
  - **27-2042** Musicians and Singers
  - **27-2091** Disc Jockeys, Except Radio
  - **27-2099** Entertainers and Performers, Sports and Related Workers, All Other

#### 27-3000 Media and Communication Workers
- **27-3010** Media and Communication Workers
  - **27-3011** Broadcast Announcers and Radio Disc Jockeys
  - **27-3023** News Analysts, Reporters, and Journalists
  - **27-3031** Public Relations Specialists
  - **27-3040** Writers and Editors
    - **27-3041** Editors
    - **27-3042** Technical Writers
    - **27-3043** Writers and Authors
    - **27-3091** Interpreters and Translators
    - **27-3092** Court Reporters and Simultaneous Captioners
    - **27-3099** Media and Communication Workers, All Other

#### 27-4000 Media and Communication Equipment Workers
- **27-4010** Media and Communication Equipment Workers
  - **27-4010** Broadcast, Sound, and Lighting Technicians
    - **27-4011** Audio and Video Technicians
    - **27-4012** Broadcast Technicians
    - **27-4014** Sound Engineering Technicians
    - **27-4015** Lighting Technicians
    - **27-4021** Photographers
    - **27-4031** Camera Operators, Television, Video, and Film
    - **27-4032** Film and Video Editors
    - **27-4099** Media and Communication Equipment Workers, All Other
29-0000 Healthcare Practitioners and Technical Occupations

29-1000 Healthcare Diagnosing or Treating Practitioners

29-1011 Chiropractors

29-1020 Dentists

29-1021 Dentists, General

29-1022 Oral and Maxillofacial Surgeons

29-1023 Orthodontists

29-1024 Prosthodontists

29-1029 Dentists, All Other Specialists

29-1031 Dietitians and Nutritionists

29-1041 Optometrists

29-1051 Pharmacists

29-1071 Physician Assistants

29-1081 Podiatrists

29-1122 Occupational Therapists

29-1123 Physical Therapists

29-1124 Radiation Therapists

29-1125 Recreational Therapists

29-1126 Respiratory Therapists

29-1127 Speech-Language Pathologists

29-1128 Exercise Physiologists

29-1129 Therapists, All Other

29-1131 Veterinarians

29-1141 Registered Nurses

29-1151 Nurse Anesthetists

29-1161 Nurse Midwives

29-1171 Nurse Practitioners

29-1181 Audiologists

29-1210 Physicians

29-1211 Anesthesiologists

29-1212 Cardiologists

29-1213 Dermatologists

29-1214 Emergency Medicine Physicians

29-1215 Family Medicine Physicians

29-1216 General Internal Medicine Physicians

29-1217 Neurologists

29-1218 Obstetricians and Gynecologists

29-1221 Pediatricians, General

29-1222 Physicians, Pathologists

29-1223 Psychiatrists

29-1224 Radiologists

29-1229 Physicians, All Other
<table>
<thead>
<tr>
<th>Code</th>
<th>Occupation</th>
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<tbody>
<tr>
<td>29-1240</td>
<td>Surgeons</td>
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<tr>
<td>29-1241</td>
<td>Ophthalmologists, Except Pediatric</td>
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<td>29-1242</td>
<td>Orthopedic Surgeons, Except Pediatric</td>
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<td>29-1243</td>
<td>Pediatric Surgeons</td>
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<td>29-1249</td>
<td>Surgeons, All Other</td>
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<tr>
<td>29-1291</td>
<td>Acupuncturists</td>
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<td>29-1292</td>
<td>Dental Hygienists</td>
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<td>29-1299</td>
<td>Healthcare Diagnosing or Treating Practitioners, All Other</td>
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<tr>
<td>29-2000</td>
<td>Health Technologists and Technicians</td>
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<tr>
<td>29-2010</td>
<td>Clinical Laboratory Technologists and Technicians (OES aggregation to SOC broad occupation)</td>
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<td>Medical and Clinical Laboratory Technologists (Optional – estimates rolled up to 29-2010)</td>
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<td>29-2012</td>
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<td>Diagnostic Related Technologists and Technicians</td>
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<tr>
<td>29-2031</td>
<td>Cardiovascular Technologists and Technicians</td>
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<tr>
<td>29-2032</td>
<td>Diagnostic Medical Sonographers</td>
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<td>29-2033</td>
<td>Nuclear Medicine Technologists</td>
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<td>29-2034</td>
<td>Radiologic Technologists and Technicians</td>
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<tr>
<td>29-2035</td>
<td>Magnetic Resonance Imaging Technologists</td>
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<td>29-2036</td>
<td>Medical Dosimetrist</td>
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<td>29-2042</td>
<td>Emergency Medical Technicians</td>
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<td>29-2043</td>
<td>Paramedics</td>
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<td>29-2050</td>
<td>Health Practitioner Support Technologists and Technicians</td>
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<td>29-2051</td>
<td>Dietetic Technicians</td>
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<td>Psychiatric Technicians</td>
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<td>Licensed Practical and Licensed Vocational Nurses</td>
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<td>29-2072</td>
<td>Medical Records Specialists</td>
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<td>Opticians, Dispensing</td>
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<td>29-2091</td>
<td>Orthotists and Prosthetists</td>
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<td>29-2092</td>
<td>Hearing Aid Specialists</td>
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<td>Health Technologists and Technicians, All Other</td>
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<td>29-9000</td>
<td>Other Healthcare Practitioners and Technical Occupations</td>
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<td>29-9021</td>
<td>Health Information Technologists and Medical Registrars</td>
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<td>29-9091</td>
<td>Athletic Trainers</td>
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<td>29-9092</td>
<td>Genetic Counselors</td>
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<td>29-9093</td>
<td>Surgical Assistants</td>
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<tr>
<td>29-9099</td>
<td>Healthcare Practitioners and Technical Workers, All Other</td>
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</tbody>
</table>
31-0000 Healthcare Support Occupations

31-1100 Home Health and Personal Care Aides; and Nursing Assistants, Orderlies, and Psychiatric Aides

31-1120 Home Health and Personal Care Aides (OES aggregation to SOC broad occupation)
31-1121 Home Health Aides (Optional – estimates rolled up to 31-1120)
31-1122 Personal Care Aides (Optional – estimates rolled up to 31-1120)

31-1130 Nursing Assistants, Orderlies, and Psychiatric Aides
31-1131 Nursing Assistants
31-1132 Orderlies
31-1133 Psychiatric Aides

31-2000 Occupational Therapy and Physical Therapist Assistants and Aides

31-2010 Occupational Therapy and Physical Therapist Assistants and Aides
31-2011 Occupational Therapy Assistants
31-2012 Occupational Therapy Aides
31-2021 Physical Therapist Assistants
31-2022 Physical Therapist Aides

31-9000 Other Healthcare Support Occupations

31-9011 Massage Therapists

31-9090 Miscellaneous Healthcare Support Occupations

31-9091 Dental Assistants
31-9092 Medical Assistants
31-9093 Medical Equipment Preparers
31-9094 Medical Transcriptionists
31-9095 Pharmacy Aides
31-9096 Veterinary Assistants and Laboratory Animal Caretakers
31-9097 Phlebotomists
31-9099 Healthcare Support Workers, All Other
33-0000 Protective Service Occupations

33-1000 Supervisors of Protective Service Workers

33-1011 First-Line Supervisors of Correctional Officers
33-1012 First-Line Supervisors of Police and Detectives
33-1021 First-Line Supervisors of Firefighting and Prevention Workers
33-1091 First-Line Supervisors of Security Workers
33-1099 First-Line Supervisors of Protective Service Workers, All Other

33-2000 Firefighting and Prevention Workers

33-2011 Firefighters
33-2021 Fire Inspectors and Investigators
33-2022 Forest Fire Inspectors and Prevention Specialists

33-3000 Law Enforcement Workers

33-3011 Bailiffs
33-3012 Correctional Officers and Jailers
33-3021 Detectives and Criminal Investigators
33-3031 Fish and Game Wardens
33-3041 Parking Enforcement Workers
33-3051 Police and Sheriff’s Patrol Officers
33-3052 Transit and Railroad Police

33-9000 Other Protective Service Workers

33-9011 Animal Control Workers
33-9021 Private Detectives and Investigators
33-9031 Gambling Surveillance Officers and Gambling Investigators
33-9032 Security Guards
33-9091 Crossing Guards and Flaggers
33-9092 Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers
33-9093 Transportation Security Screeners
33-9094 School Bus Monitors
33-9099 Protective Service Workers, All Other
35-0000 Food Preparation and Serving Related Occupations

35-1000 Supervisors of Food Preparation and Serving Workers
   35-1011 Chefs and Head Cooks
   35-1012 First-Line Supervisors of Food Preparation and Serving Workers

35-2000 Cooks and Food Preparation Workers
   35-2010 Cooks
      35-2011 Cooks, Fast Food
      35-2012 Cooks, Institution and Cafeteria
      35-2013 Cooks, Private Household
      35-2014 Cooks, Restaurant
      35-2015 Cooks, Short Order
      35-2019 Cooks, All Other
      35-2021 Food Preparation Workers

35-3000 Food and Beverage Serving Workers
   35-3011 Bartenders
   35-3023 Fast Food and Counter Workers
   35-3031 Waiters and Waitresses
   35-3041 Food Servers, Nonrestaurant
   35-9011 Dining Room and Cafeteria Attendants and Bartender Helpers
   35-9021 Dishwashers
   35-9031 Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop
   35-9099 Food Preparation and Serving Related Workers, All Other
37-0000 Building and Grounds Cleaning and Maintenance Occupations

37-1000 Supervisors of Building and Grounds Cleaning and Maintenance Workers
  37-1011 First-Line Supervisors of Housekeeping and Janitorial Workers
  37-1012 First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers

37-2000 Building Cleaning and Pest Control Workers
  37-2010 Building Cleaning Workers
    37-2011 Janitors and Cleaners, Except Maids and Housekeeping Cleaners
    37-2012 Maids and Housekeeping Cleaners
    37-2019 Building Cleaning Workers, All Other
    37-2021 Pest Control Workers

37-3000 Grounds Maintenance Workers
  37-3011 Landscaping and Groundskeeping Workers
  37-3012 Pesticide Handlers, Sprayers, and Applicators, Vegetation
  37-3013 Tree Trimmers and Pruners
  37-3019 Grounds Maintenance Workers, All Other
39-0000 Personal Care and Service Occupations

39-1000 Supervisors of Personal Care and Service Workers
   39-1013 First-Line Supervisors of Gambling Services Workers
   39-1014 First-Line Supervisors of Entertainment and Recreation Workers, Except Gambling Services
   39-1022 First-Line Supervisors of Personal Service Workers

39-2000 Animal Care and Service Workers
   39-2011 Animal Trainers
   39-2021 Animal Caretakers

39-3000 Entertainment Attendants and Related Workers
   39-3011 Gambling Dealers
   39-3012 Gambling and Sports Book Writers and Runners
   39-3019 Gambling Service Workers, All Other
   39-3021 Motion Picture Projectionists
   39-3031 Ushers, Lobby Attendants, and Ticket Takers
   39-3091 Amusement and Recreation Attendants
   39-3092 Costume Attendants
   39-3093 Locker Room, Coatroom, and Dressing Room Attendants
   39-3099 Entertainment Attendants and Related Workers, All Other

39-4000 Funeral Service Workers
   39-4011 Embalmers
   39-4012 Crematory Operators
   39-4021 Funeral Attendants
   39-4031 Morticians, Undertakers, and Funeral Arrangers

39-5000 Personal Appearance Workers
   39-5011 Barbers
   39-5012 Hairdressers, Hairstylists, and Cosmetologists
   39-5091 Makeup Artists, Theatrical and Performance
   39-5092 Manicurists and Pedicurists
   39-5093 Shampooers
   39-5094 Skincare Specialists

39-6000 Baggage Porters, Bellhops, and Concierges
   39-6011 Baggage Porters and Bellhops
   39-6012 Concierges

39-7000 Tour and Travel Guides
   39-7010 Tour and Travel Guides (OES aggregation to SOC broad occupation)
   39-7011 Tour Guides and Escorts (Optional – estimates rolled up to 39-7010)
   39-7012 Travel Guides (Optional – estimates rolled up to 39-7010)

39-9000 Other Personal Care and Service Workers
   39-9011 Childcare Workers
   39-9031 Exercise Trainers and Group Fitness Instructors
   39-9032 Recreation Workers
   39-9041 Residential Advisors
   39-9099 Personal Care and Service Workers, All Other
41-0000  Sales and Related Occupations

41-1000  Supervisors of Sales Workers
   41-1011  First-Line Supervisors of Retail Sales Workers
   41-1012  First-Line Supervisors of Non-Retail Sales Workers

41-2000  Retail Sales Workers
   41-2011  Cashiers
   41-2012  Gambling Change Persons and Booth Cashiers
   41-2021  Counter and Rental Clerks
   41-2022  Parts Salespersons
   41-2031  Retail Salespersons

41-3000  Sales Representatives, Services
   41-3011  Advertising Sales Agents
   41-3021  Insurance Sales Agents
   41-3031  Securities, Commodities, and Financial Services Sales Agents
   41-3041  Travel Agents
   41-3091  Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel

41-4000  Sales Representatives, Wholesale and Manufacturing
   41-4011  Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products
   41-4012  Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products

41-9000  Other Sales and Related Workers
   41-9011  Demonstrators and Product Promoters
   41-9012  Models
   41-9021  Real Estate Brokers
   41-9022  Real Estate Sales Agents
   41-9031  Sales Engineers
   41-9041  Telemarketers
   41-9091  Door-to-Door Sales Workers, News and Street Vendors, and Related Workers
   41-9099  Sales and Related Workers, All Other
### 43-0000 Office and Administrative Support Occupations

#### 43-1000 Supervisors of Office and Administrative Support Workers
- **43-1011** First-Line Supervisors of Office and Administrative Support Workers

#### 43-2000 Communications Equipment Operators
- **43-2011** Switchboard Operators, Including Answering Service
- **43-2021** Telephone Operators
- **43-2099** Communications Equipment Operators, All Other

#### 43-3000 Financial Clerks
- **43-3011** Bill and Account Collectors
- **43-3021** Billing and Posting Clerks
- **43-3031** Bookkeeping, Accounting, and Auditing Clerks
- **43-3041** Gambling Cage Workers
- **43-3051** Payroll and Timekeeping Clerks
- **43-3061** Procurement Clerks
- **43-3071** Tellers
- **43-3099** Financial Clerks, All Other

#### 43-4000 Information and Record Clerks
- **43-4011** Brokerage Clerks
- **43-4021** Correspondence Clerks
- **43-4031** Court, Municipal, and License Clerks
- **43-4041** Credit Authorizers, Checkers, and Clerks
- **43-4051** Customer Service Representatives
- **43-4061** Eligibility Interviewers, Government Programs
- **43-4071** File Clerks
- **43-4081** Hotel, Motel, and Resort Desk Clerks
- **43-4111** Interviewers, Except Eligibility and Loan
- **43-4121** Library Assistants, Clerical
- **43-4131** Loan Interviewers and Clerks
- **43-4141** New Accounts Clerks
- **43-4151** Order Clerks
- **43-4161** Human Resources Assistants, Except Payroll and Timekeeping
- **43-4171** Receptionists and Information Clerks
- **43-4181** Reservation and Transportation Ticket Agents and Travel Clerks
- **43-4199** Information and Record Clerks, All Other

#### 43-5000 Material Recording, Scheduling, Dispatching, and Distributing Workers
- **43-5011** Cargo and Freight Agents
- **43-5021** Couriers and Messengers
- **43-5031** Public Safety Telecommunicators
- **43-5032** Dispatchers, Except Police, Fire, and Ambulance
- **43-5041** Meter Readers, Utilities
- **43-5051** Postal Service Clerks
- **43-5052** Postal Service Mail Carriers
- **43-5053** Postal Service Mail Sorters, Processors, and Processing Machine Operators
- **43-5061** Production, Planning, and Expediting Clerks
- **43-5071** Shipping, Receiving, and Inventory Clerks
- **43-5111** Weighers, Measurers, Checkers, and Samplers, Recordkeeping

#### 43-6000 Secretaries and Administrative Assistants
- **43-6011** Executive Secretaries and Executive Administrative Assistants
- **43-6012** Legal Secretaries and Administrative Assistants
- **43-6013** Medical Secretaries and Administrative Assistants
- **43-6014** Secretaries and Administrative Assistants, Except Legal, Medical, and Executive

#### 43-9000 Other Office and Administrative Support Workers
- **43-9021** Data Entry Keyers
- **43-9022** Word Processors and Typists
- **43-9031** Desktop Publishers
- **43-9041** Insurance Claims and Policy Processing Clerks
- **43-9051** Mail Clerks and Mail Machine Operators, Except Postal Service
- **43-9061** Office Clerks, General
- **43-9071** Office Machine Operators, Except Computer
- **43-9081** Proofreaders and Copy Markers
- **43-9111** Statistical Assistants
- **43-9199** Office and Administrative Support Workers, All Other
45-0000 Farming, Fishing, and Forestry Occupations

45-1000 Supervisors of Farming, Fishing, and Forestry Workers
  45-1011 First-Line Supervisors of Farming, Fishing, and Forestry Workers

45-2000 Agricultural Workers
  45-2011 Agricultural Inspectors
  45-2021 Animal Breeders
  45-2041 Graders and Sorters, Agricultural Products
  45-2090 Miscellaneous Agricultural Workers
    45-2091 Agricultural Equipment Operators
    45-2092 Farmworkers and Laborers, Crop, Nursery, and Greenhouse
    45-2093 Farmworkers, Farm, Ranch, and Aquacultural Animals
    45-2099 Agricultural Workers, All Other

45-3000 Fishing and Hunting Workers
  45-3031 Fishing and Hunting Workers

45-4000 Forest, Conservation, and Logging Workers
  45-4011 Forest and Conservation Workers
  45-4020 Logging Workers
    45-4021 Fallers
    45-4022 Logging Equipment Operators
    45-4023 Log Graders and Scalers
    45-4029 Logging Workers, All Other
47-0000  Construction and Extraction Occupations

47-1000  Supervisors of Construction and Extraction Workers
47-1011  First-Line Supervisors of Construction Trades and Extraction Workers

47-2000  Construction Trades Workers
47-2011  Boilermakers
47-2021  Brickmasons and Blockmasons
47-2022  Stonemasons
47-2031  Carpenters
47-2041  Carpet Installers
47-2042  Floor Layers, Except Carpet, Wood, and Hard Tiles
47-2043  Floor Sanders and Finishers
47-2044  Tile and Stone Setters
47-2051  Cement Masons and Concrete Finishers
47-2053  Terrazzo Workers and Finishers
47-2061  Construction Laborers
47-2071  Paving, Surfacing, and Tamping Equipment Operators
47-2072  Pile Driver Operators
47-2073  Operating Engineers and Other Construction Equipment Operators
47-2081  Drywall and Ceiling Tile Installers
47-2082  Tapers
47-2111  Electricians
47-2121  Glaziers
47-2131  Insulation Workers, Floor, Ceiling, and Wall
47-2132  Insulation Workers, Mechanical
47-2141  Painters, Construction and Maintenance
47-2142  Paperhangers
47-2151  Pipelayers
47-2152  Plumbers, Pipefitters, and Steamfitters
47-2161  Plasterers and Stucco Masons
47-2171  Reinforcing Iron and Rebar Workers
47-2181  Roofers
47-2211  Sheet Metal Workers
47-2221  Structural Iron and Steel Workers
47-2231  Solar Photovoltaic Installers
47-3000 Helpers, Construction Trades
   47-3011 Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters
   47-3012 Helpers--Carpenters
   47-3013 Helpers--Electricians
   47-3014 Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons
   47-3015 Helpers--Pipayers, Plumbers, Pipefitters, and Steamfitters
   47-3016 Helpers--Roofers
   47-3019 Helpers, Construction Trades, All Other

47-4000 Other Construction and Related Workers
   47-4011 Construction and Building Inspectors
   47-4021 Elevator and Escalator Installers and Repairers
   47-4031 Fence Erectors
   47-4041 Hazardous Materials Removal Workers
   47-4051 Highway Maintenance Workers
   47-4061 Rail-Track Laying and Maintenance Equipment Operators
   47-4071 Septic Tank Servicers and Sewer Pipe Cleaners
   47-4090 Miscellaneous Construction and Related Workers (OES aggregation to SOC broad occupation)
      47-4091 Segmental Pavers (Optional – estimates rolled up to 47-4090)
      47-4099 Construction and Related Workers, All Other (Optional – estimates rolled up to 47-4090)

47-5000 Extraction Workers
   47-5011 Derrick Operators, Oil and Gas
   47-5012 Rotary Drill Operators, Oil and Gas
   47-5013 Service Unit Operators, Oil and Gas
   47-5022 Excavating and Loading Machine and Dragline Operators, Surface Mining
   47-5023 Earth Drillers, Except Oil and Gas
   47-5032 Explosives Workers, Ordnance Handling Experts, and Blasters
   47-5040 Underground Mining Machine Operators
      47-5041 Continuous Mining Machine Operators
      47-5043 Roof Bolters, Mining
      47-5044 Loading and Moving Machine Operators, Underground Mining
      47-5049 Underground Mining Machine Operators, All Other
   47-5051 Rock Splitters, Quarry
   47-5071 Roustabouts, Oil and Gas
   47-5081 Helpers--Extraction Workers
   47-5099 Extraction Workers, All Other
49-0000  Installation, Maintenance, and Repair Occupations

49-1000  Supervisors of Installation, Maintenance, and Repair Workers
  49-1011  First-Line Supervisors of Mechanics, Installers, and Repairers

49-2000  Electrical and Electronic Equipment Mechanics, Installers, and Repairers
  49-2011  Computer, Automated Teller, and Office Machine Repairers
  49-2021  Radio, Cellular, and Tower Equipment Installers and Repairers
  49-2022  Telecommunications Equipment Installers and Repairers, Except Line Installers
  49-2090  Miscellaneous Electrical and Electronic Equipment Mechanics, Installers, and Repairers
    49-2091  Avionics Technicians
    49-2092  Electric Motor, Power Tool, and Related Repairers
    49-2093  Electrical and Electronics Installers and Repairers, Transportation Equipment
    49-2094  Electrical and Electronics Repairers, Commercial and Industrial Equipment
    49-2095  Electrical and Electronics Repairers, Powerhouse, Substation, and Relay
    49-2096  Electronic Equipment Installers and Repairers, Motor Vehicles
    49-2097  Audiovisual Equipment Installers and Repairers
    49-2098  Security and Fire Alarm Systems Installers

49-3000  Vehicle and Mobile Equipment Mechanics, Installers, and Repairers
  49-3011  Aircraft Mechanics and Service Technicians
  49-3021  Automotive Body and Related Repairers
  49-3022  Automotive Glass Installers and Repairers
  49-3023  Automotive Service Technicians and Mechanics
  49-3031  Bus and Truck Mechanics and Diesel Engine Specialists
  49-3040  Heavy Vehicle & Mobile Equipment Service Technicians and Mechanics
    49-3041  Farm Equipment Mechanics and Service Technicians
    49-3042  Mobile Heavy Equipment Mechanics, Except Engines
    49-3043  Rail Car Repairers
  49-3050  Small Engine Mechanics
    49-3051  Motorboat Mechanics and Service Technicians
    49-3052  Motorcycle Mechanics
    49-3053  Outdoor Power Equipment and Other Small Engine Mechanics
    49-3091  Bicycle Repairers
    49-3092  Recreational Vehicle Service Technicians
    49-3093  Tire Repairers and Changers
49-9000  Other Installation, Maintenance, and Repair Occupations

49-9011  Mechanical Door Repairers
49-9012  Control and Valve Installers and Repairers, Except Mechanical Door
49-9021  Heating, Air Conditioning, and Refrigeration Mechanics and Installers
49-9031  Home Appliance Repairers

49-9040  Industrial Machinery Installation, Repair, and Maintenance Workers

49-9041  Industrial Machinery Mechanics
49-9043  Maintenance Workers, Machinery
49-9044  Millwrights
49-9045  Refractory Materials Repairers, Except Brickmasons
49-9051  Electrical Power-Line Installers and Repairers
49-9052  Telecommunications Line Installers and Repairers

49-9060  Precision Instrument and Equipment Repairers

49-9061  Camera and Photographic Equipment Repairers
49-9062  Medical Equipment Repairers
49-9063  Musical Instrument Repairers and Tuners
49-9064  Watch and Clock Repairers
49-9069  Precision Instrument and Equipment Repairers, All Other
49-9071  Maintenance and Repair Workers, General
49-9081  Wind Turbine Service Technicians

49-9090  Miscellaneous Installation, Maintenance, and Repair Workers

49-9091  Coin, Vending, and Amusement Machine Servicers and Repairers
49-9092  Commercial Divers
49-9094  Locksmiths and Safe Repairers
49-9095  Manufactured Building and Mobile Home Installers
49-9096  Riggers
49-9097  Signal and Track Switch Repairers
49-9098  Helpers–Installation, Maintenance, and Repair Workers
49-9099  Installation, Maintenance, and Repair Workers, All Other
51-0000 Production Occupations

51-1000 Supervisors of Production Workers
  51-1011 First-Line Supervisors of Production and Operating Workers

51-2000 Assemblers and Fabricators
  51-2011 Aircraft Structure, Surfaces, Rigging, and Systems Assemblers
  51-2021 Coil Winders, Tapers, and Finishers
  51-2028 Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers (OES aggregation to OES-specific code and title)
  51-2022 Electrical and Electronic Equipment Assemblers (Optional – estimates rolled up to 51-2028)
  51-2023 Electromechanical Equipment Assemblers (Optional – estimates rolled up to 51-2028)
  51-2031 Engine and Other Machine Assemblers
  51-2041 Structural Metal Fabricators and Fitters
  51-2051 Fiberglass Laminators and Fabricators
  51-2061 Timing Device Assemblers and Adjusters
  51-2090 Miscellaneous Assemblers and Fabricators (OES aggregation to SOC broad occupation)
  51-2092 Team Assemblers (Optional – estimates rolled up to 51-2090)
  51-2099 Assemblers and Fabricators, All Other (Optional – estimates rolled up to 51-2090)

51-3000 Food Processing Workers
  51-3011 Bakers
  51-3021 Butchers and Meat Cutters
  51-3022 Meat, Poultry, and Fish Cutters and Trimmers
  51-3023 Slaughterers and Meat Packers
  51-3091 Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders
  51-3092 Food Batchmakers
  51-3093 Food Cooking Machine Operators and Tenders
  51-3099 Food Processing Workers, All Other

51-4000 Metal Workers and Plastic Workers
  51-4021 Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic
  51-4022 Forging Machine Setters, Operators, and Tenders, Metal and Plastic
  51-4023 Rolling Machine Setters, Operators, and Tenders, Metal and Plastic
  51-4031 Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic
  51-4032 Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic
  51-4033 Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic
  51-4034 Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic
  51-4035 Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic
<table>
<thead>
<tr>
<th>Code</th>
<th>Occupation</th>
</tr>
</thead>
<tbody>
<tr>
<td>51-4041</td>
<td>Machinists</td>
</tr>
<tr>
<td>51-4051</td>
<td>Metal-Refining Furnace Operators and Tenders</td>
</tr>
<tr>
<td>51-4052</td>
<td>Pourers and Casters, Metal</td>
</tr>
<tr>
<td>51-4061</td>
<td>Model Makers, Metal and Plastic</td>
</tr>
<tr>
<td>51-4062</td>
<td>Patternmakers, Metal and Plastic</td>
</tr>
<tr>
<td>51-4071</td>
<td>Foundry Mold and Coremakers</td>
</tr>
<tr>
<td>51-4072</td>
<td>Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic</td>
</tr>
<tr>
<td>51-4081</td>
<td>Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic</td>
</tr>
<tr>
<td>51-4111</td>
<td>Tool and Die Makers</td>
</tr>
<tr>
<td>51-4121</td>
<td>Welders, Cutters, Solderers, and Brazers</td>
</tr>
<tr>
<td>51-4122</td>
<td>Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders, Metal and Plastic</td>
</tr>
<tr>
<td>51-4191</td>
<td>Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic</td>
</tr>
<tr>
<td>51-4192</td>
<td>Layout Workers, Metal and Plastic</td>
</tr>
<tr>
<td>51-4193</td>
<td>Plating Machine Setters, Operators, and Tenders, Metal and Plastic</td>
</tr>
<tr>
<td>51-4194</td>
<td>Tool Grinders, Filers, and Sharpeners</td>
</tr>
<tr>
<td>51-4199</td>
<td>Metal Workers and Plastic Workers, All Other</td>
</tr>
</tbody>
</table>

**51-5100 Printing Workers**
- 51-5111 Prepress Technicians and Workers
- 51-5112 Printing Press Operators
- 51-5113 Print Binding and Finishing Workers

**51-6000 Textile, Apparel, and Furnishings Workers**
- 51-6011 Laundry and Dry-Cleaning Workers
- 51-6021 Pressers, Textile, Garment, and Related Materials
- 51-6031 Sewing Machine Operators
- 51-6041 Shoe and Leather Workers and Repairers
- 51-6042 Shoe Machine Operators and Tenders
- 51-6051 Sewers, Hand
- 51-6052 Tailors, Dressmakers, and Custom Sewers
- 51-6061 Textile Bleaching and Dyeing Machine Operators and Tenders
- 51-6062 Textile Cutting Machine Setters, Operators, and Tenders
- 51-6063 Textile Knitting and Weaving Machine Setters, Operators, and Tenders
- 51-6064 Textile Winding, Twisting, & Drawing Out Mach. Setters, Operators, & Tenders
- 51-6091 Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers
- 51-6092 Fabric and Apparel Patternmakers
- 51-6093 Upholsterers
- 51-6099 Textile, Apparel, and Furnishings Workers, All Other

**51-7000 Woodworkers**
- 51-7011 Cabinetmakers and Bench Carpenters
- 51-7021 Furniture Finishers
- 51-7031 Model Makers, Wood
- 51-7032 Patternmakers, Wood
- 51-7041 Sawing Machine Setters, Operators, and Tenders, Wood
- 51-7042 Woodworking Machine Setters, Operators, and Tenders, Except Sawing
- 51-7099 Woodworkers, All Other
51-0000  Production Occupations

51-8000  Plant and System Operators
51-8011  Nuclear Power Reactor Operators
51-8012  Power Distributors and Dispatchers
51-8013  Power Plant Operators
51-8021  Stationary Engineers and Boiler Operators
51-8031  Water and Wastewater Treatment Plant and System Operators
51-8091  Chemical Plant and System Operators
51-8092  Gas Plant Operators
51-8093  Petroleum Pump System Operators, Refinery Operators, and Gaugers
51-8099  Plant and System Operators, All Other

51-9000  Other Production Occupations
51-9011  Chemical Equipment Operators and Tenders
51-9012  Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders
51-9021  Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders
51-9022  Grinding and Polishing Workers, Hand
51-9023  Mixing and Blending Machine Setters, Operators, and Tenders
51-9031  Cutters and Trimmers, Hand
51-9032  Cutting and Slicing Machine Setters, Operators, and Tenders
51-9041  Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders
51-9051  Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders
51-9061  Inspectors, Testers, Sorters, Samplers, and Weighers
51-9071  Jewelers and Precious Stone and Metal Workers

51-9080  Dental & Ophthalmic Laboratory Techs & Medical Appliance Techs
51-9081  Dental Laboratory Technicians
51-9082  Medical Appliance Technicians
51-9083  Ophthalmic Laboratory Technicians
51-9111  Packaging and Filling Machine Operators and Tenders
51-9123  Painting, Coating, and Decorating Workers
51-9124  Coating, Painting, and Spraying Machine Setters, Operators, and Tenders
51-9141  Semiconductor Processing Technicians
51-9151  Photographic Process Workers and Processing Machine Operators
51-9161  Computer Numerically Controlled Tool Operators
51-9162  Computer Numerically Controlled Tool Programmers

51-9190  Miscellaneous Production Workers
51-9191  Adhesive Bonding Machine Operators and Tenders
51-9192  Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders
51-9193  Cooling and Freezing Equipment Operators and Tenders
51-9194  Etchers and Engravers
51-9195  Molders, Shapers, and Casters, Except Metal and Plastic
51-9197  Tire Builders
51-9198  Helpers--Production Workers
51-9199  Production Workers, All Other
### 53-0000 Transportation and Material Moving Occupations

#### 53-1000 Supervisors of Transportation and Material Moving Workers

53-1041  Aircraft Cargo Handling Supervisors
53-1044  First-Line Supervisors of Passenger Attendants
53-1048  First-Line Supervisors of Transportation and Material-Moving workers, Except Aircraft Cargo Handling Supervisors and First-Line Supervisors of Passenger Attendants (OES aggregation to OES-specific code and title)
53-1042  First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand (Optional – estimates rolled up to 53-1048)
53-1043  First-Line Supervisors of Material-Moving Machine and Vehicle Operators (Optional – estimates rolled up to 53-1048)
53-1049  First-Line Supervisors of Transportation Workers, All Other

#### 53-2000 Air Transportation Workers

53-2011  Airline Pilots, Copilots, and Flight Engineers
53-2012  Commercial Pilots
53-2021  Air Traffic Controllers
53-2022  Airfield Operations Specialists
53-2031  Flight Attendants

#### 53-3000 Motor Vehicle Operators

53-3011  Ambulance Drivers and Attendants, Except Emergency Medical Technicians
53-3030  Driver/Sales Workers and Truck Drivers
53-3031  Driver/Sales Workers
53-3032  Heavy and Tractor-Trailer Truck Drivers
53-3033  Light Truck Drivers
53-3050  Passenger Vehicle Drivers
53-3051  Bus Drivers, School
53-3052  Bus Drivers, Transit and Intercity
53-3053  Shuttle Drivers and Chauffeurs
53-3054  Taxi Drivers
53-3099  Motor Vehicle Operators, All Other

#### 53-4000 Rail Transportation Workers

53-4011  Locomotive Engineers
53-4013  Rail Yard Engineers, Dinkey Operators, and Hostlers
53-4022  Railroad Brake, Signal, and Switch Operators and Locomotive Firers
53-4031  Railroad Conductors and Yardmasters
53-4041  Subway and Streetcar Operators
53-4099  Rail Transportation Workers, All Other
53-0000  Transportation and Material Moving Occupations

53-5000  Water Transportation Workers

53-5011  Sailors and Marine Oilers
53-5021  Captains, Mates, and Pilots of Water Vessels
53-5022  Motorboat Operators
53-5031  Ship Engineers

53-6000  Other Transportation Workers

53-6011  Bridge and Lock Tenders
53-6021  Parking Attendants
53-6031  Automotive and Watercraft Service Attendants
53-6032  Aircraft Service Attendants
53-6041  Traffic Technicians
53-6051  Transportation Inspectors
53-6061  Passenger Attendants
53-6099  Transportation Workers, All Other

53-7000  Material Moving Workers

53-7011  Conveyor Operators and Tenders
53-7021  Crane and Tower Operators
53-7031  Dredge Operators
53-7041  Hoist and Winch Operators
53-7051  Industrial Truck and Tractor Operators
53-7060  Laborers and Material Movers

53-7061  Cleaners of Vehicles and Equipment
53-7062  Laborers and Freight, Stock, and Material Movers, Hand
53-7063  Machine Feeders and Offbearers
53-7064  Packers and Packagers, Hand
53-7065  Stockers and Order Fillers
53-7070  Pumping Station Operators

53-7071  Gas Compressor and Gas Pumping Station Operators
53-7072  Pump Operators, Except Wellhead Pumpers
53-7073  Wellhead Pumpers
53-7081  Refuse and Recyclable Material Collectors
53-7121  Tank Car, Truck, and Ship Loaders
53-7199  Material Moving Workers, All Other