

## 2019 Demand Occupation List

| SOC     | Description                                   | 2018 Jobs | 2024 Jobs | Annual Open | Avg. Hourly Earnings | Typical Entry Level Education |
|---------|---|-----------|-----------|-------------|----------------------|-------------------------------|
| 11-2021 | Marketing Managers                            | 58        | 68        | 7           | \$60.73              | Bachelor's degree             |
| 11-2022 | Sales Managers                                | 134       | 152       | 15          | \$37.61              | Bachelor's degree             |
| 11-3011 | Administrative Services Managers              | 381       | 396       | 34          | \$39.04              | Bachelor's degree             |
| 11-3021 | Computer and Information Systems Managers     | 141       | 161       | 14          | \$52.67              | Bachelor's degree             |
| 11-3031 | Financial Managers                            | 325       | 359       | 30          | \$42.82              | Bachelor's degree             |
| 11-3051 | Industrial Production Managers                | 100       | 105       | 8           | \$48.25              | Bachelor's degree             |
| 11-3121 | Human Resources Managers                      | 233       | 236       | 20          | \$32.14              | Bachelor's degree             |
| 11-9021 | Construction Managers                         | 166       | 193       | 18          | \$44.28              | Bachelor's degree             |
| 11-9031 | Education Administrators, Preschool and Child | 60        | 62        | 5           | \$17.11              | Bachelor's degree             |
| 11-9039 | Education Administrators, All Other           | 35        | 35        | 3           | \$37.82              | Bachelor's degree             |
| 11-9041 | Architectural and Engineering Managers        | 79        | 87        | 7           | \$72.15              | Bachelor's degree             |
| 11-9111 | Medical and Health Services Managers          | 430       | 446       | 36          | \$36.49              | Bachelor's degree             |
| 11-9199 | Managers, All Other                           | 301       | 315       | 25          | \$52.96              | Bachelor's degree             |
| 11-1011 | Chief Executives                              | 189       | 184       | 14          | \$59.21              | Bachelor's degree             |
| 11-1021 | General and Operations Managers               | 1,428     | 1,551     | 141         | \$43.72              | Bachelor's degree             |
| 13-1022 | Wholesale and Retail Buyers, Except Farm Pro  | 1,301     | 1,402     | 109         | \$27.00              | Bachelor's degree             |
| 13-1023 | Purchasing Agents, Except Wholesale Retail,   | 3,883     | 3,849     | 76          | \$27.07              | Bachelor's degree             |
| 13-1051 | Cost Estimators                               | 107       | 119       | 13          | \$28.62              | Bachelor's degree             |
| 13-1071 | Human Resources Specialists                   | 522       | 545       | 56          | \$26.28              | Bachelor's degree             |
| 13-1081 | Logisticians                                  | 255       | 261       | 26          | \$36.86              | Bachelor's degree             |
| 13-1111 | Management Analysts                           | 218       | 249       | 25          | \$33.09              | Bachelor's degree             |
| 13-1151 | Training and Development Specialists          | 414       | 438       | 45          | \$24.65              | Bachelor's degree             |
| 13-1161 | Market Research Analysts and Marketing Spe    | 169       | 216       | 26          | \$27.61              | Bachelor's degree             |
| 13-1199 | Business Operations Specialists, All Other    | 488       | 524       | 51          | \$35.65              | Bachelor's degree             |
| 13-2011 | Accountants and Auditors                      | 546       | 583       | 56          | \$34.69              | Bachelor's degree             |
| 13-2021 | Appraisers and Assessors of Real Estate       | 67        | 71        | 5           | \$20.28              | Bachelor's degree             |
| 13-2041 | Credit Analysts                               | 30        | 32        | 3           | \$40.99              | Bachelor's degree             |
| 13-2051 | Financial Analysts                            | 46        | 56        | 6           | \$40.87              | Bachelor's degree             |
| 13-2052 | Personal Financial Advisors                   | 29        | 34        | 3           | \$30.03              | Bachelor's degree             |
| 13-2061 | Financial Examiners                           | 25        | 26        | 2           | \$31.50              | Bachelor's degree             |
| 13-2072 | Loan Officers                                 | 237       | 232       | 20          | \$31.41              | Bachelor's degree             |
| 13-2099 | Financial Specialists, All Other              | 29        | 32        | 3           | \$44.73              | Bachelor's degree             |
| 15-1121 | Computer Systems Analysts                     | 146       | 171       | 15          | \$36.25              | Bachelor's degree             |
| 15-1122 | Information Security Analysts                 | 92        | 108       | 9           | \$32.97              | Bachelor's degree             |
| 15-1131 | Computer Programmers                          | 90        | 95        | 7           | \$30.91              | Bachelor's degree             |
| 15-1132 | Software Developers, Applications             | 145       | 208       | 22          | \$36.73              | Bachelor's degree             |
| 15-1133 | Software Developers, Systems Software         | 73        | 94        | 9           | \$44.05              | Bachelor's degree             |
| 15-1134 | Web Developers                                | 34        | 42        | 4           | \$26.89              | Associate's degree            |
| 15-1141 | Database Administrators                       | 38        | 43        | 3           | \$38.83              | Bachelor's degree             |
| 15-1142 | Network and Computer Systems Administrato     | 196       | 210       | 15          | \$32.22              | Bachelor's degree             |
| 15-1151 | Computer User Support Specialists             | 331       | 372       | 32          | \$20.98              | Some college, no d            |
| 15-1152 | Computer Network Support Specialists          | 117       | 127       | 10          | \$27.13              | Associate's degree            |
| 15-2031 | Operations Research Analysts                  | 36        | 44        | 4           | \$31.78              | Bachelor's degree             |
| 17-1011 | Architects, Except Landscape and Naval        | 25        | 34        | 4           | \$34.05              | Bachelor's degree             |
| 17-1022 | Surveyors                                     | 37        | 43        | 4           | \$24.84              | Bachelor's degree             |
| 17-2011 | Aerospace Engineers                           | 20        | 21        | . Data      | \$44.76              | Bachelor's degree             |
| 17-2051 | Civil Engineers                               | 113       | 125       | 11          | \$41.52              | Bachelor's degree             |
| 17-2061 | Computer Hardware Engineers                   | 18        | 20        | . Data      | \$45.37              | Bachelor's degree             |

|         |  |       |       |        |            |                    |
|---------|--|-------|-------|--------|------------|--------------------|
| 17-2071 | Electrical Engineers                             | 77    | 84    | 6      | \$43.96    | Bachelor's degree  |
| 17-2072 | Electronics Engineers, Except Computer           | 71    | 72    | 5      | \$35.60    | Bachelor's degree  |
| 17-2081 | Environmental Engineers                          | 29    | 31    | 2      | \$39.43    | Bachelor's degree  |
| 17-2111 | Health and Safety Engineers, Except Mining S     | 29    | 31    | 2      | \$54.16    | Bachelor's degree  |
| 17-2112 | Industrial Engineers                             | 79    | 91    | 8      | \$39.53    | Bachelor's degree  |
| 17-2121 | Marine Engineers and Naval Architects            | 17    | 17    | . Data | \$71.56    | Bachelor's degree  |
| 17-2131 | Materials Engineers                              | 34    | 34    | 3      | \$36.84    | Bachelor's degree  |
| 17-2141 | Mechanical Engineers                             | 230   | 240   | 17     | \$40.23    | Bachelor's degree  |
| 17-2171 | Petroleum Engineers                              | 107   | 102   | 9      | \$56.62    | Bachelor's degree  |
| 17-2199 | Engineers, All Other                             | 114   | 117   | 8      | \$39.92    | Bachelor's degree  |
| 17-3011 | Architectural and Civil Drafters                 | 31    | 38    | 4      | \$21.87    | Associate's degree |
| 17-3012 | Electrical and Electronics Drafters              | 11    | 11    | . Data | \$26.62    | Associate's degree |
| 17-3013 | Mechanical Drafters                              | 69    | 72    | 7      | \$26.37    | Associate's degree |
| 17-3021 | Aerospace Engineering and Operations Techn       | <10   | <10   | . Data | Insf. Data | Associate's degree |
| 17-3022 | Civil Engineering Technicians                    | 52    | 54    | 5      | \$22.07    | Associate's degree |
| 17-3023 | Electrical and Electronics Engineering Techni    | 156   | 159   | 14     | \$32.61    | Associate's degree |
| 17-3024 | Robotics Technicians                             | N/A   | N/A   | . Data | N/A        | Some college, no d |
| 17-3025 | Environmental Engineering Technicians            | 15    | 15    | . Data | \$24.61    | Associate's degree |
| 17-3026 | Industrial Engineering Technicians               | 39    | 42    | 4      | \$26.12    | Associate's degree |
| 17-3027 | Mechanical Engineering Technicians               | 31    | 31    | 3      | \$32.10    | Associate's degree |
| 17-3029 | Engineering Technicians, Except Drafters, All    | 64    | 65    | 6      | \$25.69    | Associate's degree |
| 19-2021 | Atmospheric and Space Scientists                 | 70    | 69    | 5      | \$48.15    | Bachelor's degree  |
| 19-2031 | Chemists   | 23    | 25    | 3      | \$57.73    | Bachelor's degree  |
| 19-2041 | Environmental Scientists and Specialists, Includ | 28    | 31    | 3      | \$29.33    | Bachelor's degree  |
| 19-2042 | Geoscientists, Except Hydrologists and Geograp   | 41    | 39    | 4      | \$47.88    | Bachelor's degree  |
| 19-4011 | Agricultural and Food Science Technicians        | 18    | 19    | 2      | \$16.70    | Associate's degree |
| 19-4021 | Biological Technicians                           | 23    | 24    | 2      | \$30.05    | Bachelor's degree  |
| 19-4031 | Chemical Technicians                             | 20    | 23    | 3      | \$26.71    | Associate's degree |
| 19-4041 | Geological and Petroleum Technicians             | 58    | 58    | 7      | \$21.86    | Associate's degree |
| 19-4091 | Environmental Science and Protection Techni      | 33    | 36    | 5      | \$30.59    | Associate's degree |
| 19-4092 | Forensic Science Technicians                     | 13    | 15    | 2      | \$24.99    | Bachelor's degree  |
| 19-4093 | Forest and Conservation Technicians              | 17    | 18    | 2      | \$17.63    | Associate's degree |
| 19-4099 | Life, Physical, and Social Science Technicians   | 31    | 32    | 4      | \$25.18    | Associate's degree |
| 21-1018 | Substance Abuse, Behavioral Disorder, and M      | 100   | 103   | 12     | \$22.70    | Bachelor's degree  |
| 21-1021 | Child, Family, and School Social Workers         | 334   | 326   | 35     | \$16.34    | Bachelor's degree  |
| 21-1029 | Social Workers, All Other                        | 28    | 29    | 3      | \$30.90    | Bachelor's degree  |
| 21-1091 | Health Educators                                 | 40    | 44    | 6      | \$24.77    | Bachelor's degree  |
| 21-1092 | Probation Officers and Correctional Treatment    | 42    | 45    | 4      | \$23.00    | Bachelor's degree  |
| 21-1099 | Community and Social Service Specialists, All    | 39    | 42    | 5      | \$25.43    | Bachelor's degree  |
| 23-2011 | Paralegals and Legal Assistants                  | 89    | 95    | 10     | \$20.43    | Associate's degree |
| 25-2012 | Kindergarten Teachers, Except Special Educa      | 154   | 149   | 15     | \$18.98    | Bachelor's degree  |
| 25-2021 | Elementary School Teachers, Except Special       | 1,229 | 1,199 | 88     | \$19.58    | Bachelor's degree  |
| 25-2022 | Middle School Teachers, Except Special and C     | 543   | 530   | 39     | \$20.37    | Bachelor's degree  |
| 25-2031 | Secondary School Teachers, Except Special a      | 839   | 815   | 58     | \$20.96    | Bachelor's degree  |
| 25-2051 | Special Education Teachers, Preschool            | 11    | 11    | . Data | \$19.50    | Bachelor's degree  |
| 25-2052 | Special Education Teachers, Kindergarten and     | 241   | 232   | 17     | \$21.15    | Bachelor's degree  |
| 25-2054 | Special Education Teachers, Secondary Scho       | 54    | 56    | 4      | \$22.98    | Bachelor's degree  |
| 25-2059 | Special Education Teachers, All Other            | 14    | 14    | . Data | \$19.35    | Bachelor's degree  |
| 25-3097 | Teachers and Instructors, All Other              | 526   | 531   | 59     | \$21.41    | Bachelor's degree  |
| 27-1021 | Commercial and Industrial Designers              | 24    | 26    | 3      | \$35.59    | Bachelor's degree  |
| 27-1024 | Graphic Designers                                | 80    | 89    | 9      | \$19.34    | Bachelor's degree  |
| 27-1025 | Interior Designers                               | 12    | 16    | 2      | \$20.13    | Bachelor's degree  |

|         |  |       |       |        |         |                          |
|---------|--|-------|-------|--------|---------|--------------------------|
| 27-2012 | Producers and Directors  | 13    | 16    | 2      | \$25.53 | Bachelor's degree        |
| 27-2041 | Music Directors and Composers  | 64    | 66    | 7      | \$17.98 | Bachelor's degree        |
| 27-3011 | Radio and Television Announcers  | 11    | 11    | . Data | \$20.78 | Bachelor's degree        |
| 27-3031 | Public Relations Specialists   | 86    | 95    | 10     | \$19.48 | Bachelor's degree        |
| 27-3042 | Technical Writers  | 38    | 43    | 5      | \$25.10 | Bachelor's degree        |
| 27-3043 | Writers and Authors  | 14    | 15    | . Data | \$16.04 | Bachelor's degree        |
| 27-3091 | Interpreters and Translators   | 54    | 55    | 5      | \$17.04 | Bachelor's degree        |
| 27-4012 | Broadcast Technicians  | 16    | 16    | . Data | \$16.24 | Associate's degree       |
| 29-1031 | Dietitians and Nutritionists   | 42    | 45    | 3      | \$23.59 | Bachelor's degree        |
| 29-1126 | Respiratory Therapists   | 81    | 91    | 6      | \$23.02 | Associate's degree       |
| 29-1141 | Registered Nurses  | 1,506 | 1,604 | 95     | \$26.52 | Bachelor's degree        |
| 29-2011 | Medical and Clinical Laboratory Technologist                                     | 2,041 | 2,348 | 253    | \$26.82 | Bachelor's degree        |
| 29-2012 | Medical and Clinical Laboratory Technicians                                      | 2,201 | 2,583 | 339    | \$14.99 | Associate's degree       |
| 29-2018 | Clinical Laboratory Technologists and Technicians                                | 204   | 220   | 16     | \$21.86 | Associate's degree       |
| 29-2021 | Dental Hygienists  | 129   | 140   | 10     | \$36.39 | Associate's degree       |
| 29-2031 | Cardiovascular Technologists and Technicians                                     | 19    | 21    | . Data | \$16.46 | Associate's degree       |
| 29-2032 | Diagnostic Medical Sonographers  | 17    | 19    | . Data | \$23.13 | Associate's degree       |
| 29-2034 | Radiologic Technologists   | 127   | 130   | 7      | \$23.60 | Associate's degree       |
| 29-2035 | Magnetic Resonance Imaging Technologists   | 11    | 12    | . Data | \$27.25 | Associate's degree       |
| 29-2041 | Emergency Medical Technicians and Paramedics                                     | 249   | 310   | 29     | \$15.35 | Postsecondary non-degree |
| 29-2052 | Pharmacy Technicians   | 271   | 275   | 22     | \$14.70 | High school diploma      |
| 29-2055 | Surgical Technologists   | 77    | 81    | 7      | \$20.61 | Postsecondary non-degree |
| 29-2056 | Veterinary Technologists and Technicians   | 55    | 66    | 7      | \$15.01 | Associate's degree       |
| 29-2061 | Licensed Practical and Licensed Vocational Nurses                                | 938   | 920   | 72     | \$18.43 | Postsecondary non-degree |
| 29-2071 | Medical Records and Health Information Technicians                               | 150   | 156   | 10     | \$18.13 | Postsecondary non-degree |
| 29-9011 | Occupational Health and Safety Specialists                                       | 91    | 97    | 6      | \$32.40 | Bachelor's degree        |
| 31-1014 | Nursing Assistants   | 953   | 1,002 | 5%     | 118     | Postsecondary non-degree |
| 31-2011 | Occupational Therapy Assistants  | 37    | 40    | 5      | \$20.78 | Associate's degree       |
| 31-2021 | Physical Therapist Assistants  | 61    | 66    | 8      | \$26.48 | Associate's degree       |
| 31-9091 | Dental Assistants  | 275   | 293   | 34     | \$17.97 | Postsecondary non-degree |
| 31-9092 | Medical Assistants   | 426   | 446   | 5%     | 50      | Postsecondary non-degree |
| 33-1012 | First-Line Supervisors of Police and Detectives                                  | 250   | 269   | 19     | \$30.63 | High school diploma      |
| 33-2011 | Firefighters   | 379   | 412   | 32     | \$18.49 | Postsecondary non-degree |
| 33-3051 | Police and Sheriff's Patrol Officers   | 816   | 862   | 63     | \$19.37 | High school diploma      |
| 33-9032 | Security Guards  | 523   | 561   | 77     | \$17.07 | High school diploma      |
| 41-3031 | Securities, Commodities, and Financial Services Sales Agents                     | 75    | 82    | 9      | \$67.62 | Bachelor's degree        |
| 41-4011 | Sales Representatives, Wholesale and Manufacturing, Except Parts and Accessories | 208   | 251   | 30     | \$34.28 | Bachelor's degree        |
| 41-9031 | Sales Engineers  | 13    | 18    | 2      | \$47.44 | Bachelor's degree        |
| 43-6013 | Medical Secretaries  | 543   | 560   | 3%     | 62      | High school diploma      |
| 47-2031 | Carpenters   | 340   | 358   | 38     | \$20.42 | High school diploma      |
| 47-2111 | Electricians   | 385   | 370   | 43     | \$28.64 | High school diploma      |
| 47-2152 | Plumbers, Pipefitters, and Steamfitters  | 455   | 497   | 59     | \$21.28 | High school diploma      |
| 49-1011 | First-Line Supervisors of Mechanics, Installers, and Repairers                   | 496   | 522   | 48     | \$30.77 | High school diploma      |
| 49-2021 | Radio, Cellular, and Tower Equipment Installers and Repairers                    | 36    | 36    | 4      | \$33.68 | Associate's degree       |
| 49-2091 | Avionics Technicians   | 97    | 93    | 7      | \$30.88 | Associate's degree       |
| 49-3011 | Aircraft Mechanics and Service Technicians                                       | 637   | 598   | 47     | \$28.54 | Postsecondary non-degree |
| 49-3021 | Automotive Body and Related Repairers  | 67    | 71    | 7      | \$20.92 | High school diploma      |
| 49-3031 | Bus and Truck Mechanics and Diesel Engine Mechanics                              | 291   | 322   | 33     | \$21.45 | High school diploma      |
| 49-9021 | Heating, Air Conditioning, and Refrigeration Mechanics and Installers            | 322   | 310   | 32     | \$19.87 | Postsecondary non-degree |
| 49-9041 | Industrial Machinery Mechanics   | 305   | 346   | 35     | \$24.58 | High school diploma      |
| 49-9043 | Maintenance Workers, Machinery   | 279   | 280   | 31     | \$19.15 | High school diploma      |
| 49-9051 | Electrical Power-Line Installers and Repairers                                   | 135   | 152   | 14     | \$29.13 | High school diploma      |

|         |  |       |       |     |         |                     |
|---------|--|-------|-------|-----|---------|---------------------|
| 49-9062 | Medical Equipment Repairers                    | 16    | 18    | 2   | \$29.84 | Associate's degree  |
| 49-9081 | Wind Turbine Service Technicians               | 63    | 95    | 13  | \$25.34 | Postsecondary non   |
| 51-1011 | First-Line Supervisors of Production and Oper  | 517   | 524   | 54  | \$30.01 | High school diploma |
| 51-4011 | Computer-Controlled Machine Tool Operators     | 132   | 150   | 17  | \$17.18 | High school diploma |
| 51-4041 | Machinists                                     | 418   | 445   | 49  | \$18.63 | High school diploma |
| 51-4121 | Welders, Cutters, Solderers, and Brazers       | 505   | 556   | 66  | \$19.47 | High school diploma |
| 53-2011 | Airline Pilots, Copilots, and Flight Engineers | 235   | 229   | 22  | \$56.05 | Bachelor's degree   |
| 53-2021 | Air Traffic Controllers                        | 83    | 81    | 8   | \$57.17 | Associate's degree  |
| 53-3021 | Bus Drivers, Transit and Intercity             | 94    | 103   | 14  | \$12.80 | High school diploma |
| 53-3022 | Bus Drivers, School or Special Client          | 398   | 394   | 49  | \$10.06 | High school diploma |
| 53-3032 | Heavy and Tractor-Trailer Truck Drivers        | 1,421 | 1,537 | 179 | \$19.67 | Postsecondary non   |
| 53-3033 | Light Truck or Delivery Services Drivers       | 412   | 437   | 49  | \$16.90 | High school diploma |
| 53-7021 | Crane and Tower Operators                      | 24    | 26    | 3   | \$23.62 | High school diploma |