# United States Department of Labor 

Bureau of Labor Statistics
Boston, MA 02203

Internet address: www.bls.gov/ro1/
For information: (617) 565-2327
Media contact: Denis McSweeney (617) 565-2331

USDL-08-295
For release: Wednesday, October 15, 2008

## OCCUPATIONAL EMPLOYMENT AND WAGES IN BOSTON-CAMBRIDGE-QUINCY, MASSACHUSETTS, MAY 2007

The Boston metropolitan area ${ }^{1}$ had an overall average (mean) hourly wage of $\$ 24.87$, significantly above the national average of $\$ 19.56$ in May 2007, according to the U.S. Department of Labor’s Bureau of Labor Statistics. Regional Commissioner Denis M. McSweeney noted that after testing for statistical significance, wages in the local area were measurably higher than their respective national averages for 21 of the 22 major occupational groups. In addition, when compared to the national distribution, local employment was more highly concentrated in 9 of the 22 occupational groups including 9 of the 10 management, professional, and related occupational groups ${ }^{2}$. Eight occupational groups had local employment shares significantly below their national representation, while the remaining five showed no statistically significant employment share difference. (See table A and box note at end of release.)

These estimates of employment and wages are from the Occupational Employment Statistics (OES) Survey, a Federal-State cooperative program between BLS and State Workforce Agencies, in this case the Commonwealth of Massachusetts Division of Unemployment Assistance. The OES survey provides estimates of employment and hourly and annual wages for wage and salary workers in 22 major occupational groups and 801 non-military detailed occupations for the nation, states, metropolitan statistical areas, metropolitan divisions, and nonmetropolitan areas.

## Occupational wages in the Boston-Cambridge-Quincy area

Management and legal occupations were the two highest-paid occupational groups in the Boston-Cambridge-Quincy area in May 2007, with those in management averaging $\$ 54.58$ an hour and those in legal occupations, \$47.96. (See chart A and table A.) Nationwide, these were also the two highest-paying groups with earnings of $\$ 46.22$ in management and $\$ 42.53$ in legal occupations.

Locally, two of the higher-paid occupations within the management group were chief executives and natural science managers earning hourly wages of $\$ 77.90$ and $\$ 65.76$, respectively. At the lower end

[^0]of the wage scale were education administrators, preschool and child care center/program (\$24.33) and food service managers (\$26.04).

Lawyers, at $\$ 61.86$ an hour, were among the better-paid legal occupations in the Boston area, while law clerks were at the lower end averaging $\$ 23.16$. (Detailed occupational data are presented in table 1.)

Table A. Occupational employment and wages by major occupational group, United States and Boston metropolitan area, and measures of statistical significance, May 2007

| Major occupational group | Employment share (percent of total) |  |  | Average (mean) hourly wage |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | United States | Boston | Significant difference ${ }^{1}$ | United States | Boston | Significant difference ${ }^{1}$ |
| Management | 4.5\% | 6.2\% | Yes | \$46.22 | \$54.58 | Yes |
| Business and financial operations | 4.5 | 6.0 | Yes | 30.01 | 35.16 | Yes |
| Computer and mathematical science | 2.4 | 4.5 | Yes | 34.71 | 40.94 | Yes |
| Architecture and engineering | 1.9 | 2.8 | Yes | 33.11 | 37.71 | Yes |
| Life, physical, and social science | 0.9 | 1.7 | Yes | 29.82 | 35.06 | Yes |
| Community and social services | 1.3 | 1.7 | Yes | 19.49 | 20.89 | Yes |
| Legal | 0.7 | 0.9 | Yes | 42.53 | 47.96 | Yes |
| Education, training, and library | 6.2 | 6.4 | No | 22.41 | 25.49 | Yes |
| Arts, design, entertainment, sports, and media | 1.3 | 1.6 | Yes | 23.27 | 26.61 | Yes |
| Healthcare practitioner and technical | 5.1 | 6.3 | Yes | 31.26 | 36.11 | Yes |
| Healthcare support | 2.7 | 2.7 | No | 12.31 | 14.55 | Yes |
| Protective service | 2.3 | 2.2 | No | 18.63 | 20.97 | Yes |
| Food preparation and serving related | 8.4 | 7.7 | Yes | 9.35 | 11.28 | Yes |
| Building and grounds cleaning and maintenance | 3.3 | 3.2 | No | 11.33 | 13.74 | Yes |
| Personal care and service | 2.5 | 2.3 | Yes | 11.53 | 14.46 | Yes |
| Sales and related | 10.7 | 10.4 | Yes | 16.94 | 20.79 | Yes |
| Office and administrative support | 17.3 | 17.2 | No | 15.00 | 17.64 | Yes |
| Farming, fishing, and forestry | 0.3 | 0.1 | Yes | 10.89 | 11.77 | No |
| Construction and extraction | 5.0 | 3.3 | Yes | 19.53 | 25.03 | Yes |
| Installation, maintenance, and repair | 4.0 | 3.1 | Yes | 19.20 | 22.46 | Yes |
| Production | 7.6 | 5.0 | Yes | 15.05 | 16.85 | Yes |
| Transportation and material moving | 7.2 | 4.9 | Yes | 14.75 | 16.17 | Yes |

${ }^{1}$ Statistical significance testing at the 90 -percent confidence level.

Five occupational groups had average wages that were clustered between $\$ 35.00$ and $\$ 41.00$ an hour: life, physical, and social science; business and financial operations; healthcare practitioner and technical; architecture and engineering; and computer and mathematical science.


Workers in the construction and extraction occupational group in Boston were also well paid, averaging $\$ 25.03$ per hour, more than 28 percent above the national average of $\$ 19.53$. Some of the better-paid occupations within this group included plumbers, pipefitters, and steamfitters (\$28.56); electricians (\$27.03); and carpenters (\$24.80).

With an average local wage of $\$ 11.28$ per hour, food preparation and serving related occupations were one of the lower-paid occupational groups in Boston. Nationwide, food preparation and serving related was also among the lowest-paying occupational groups with an average wage of $\$ 9.35$. Chefs and head cooks, averaging $\$ 21.72$ an hour, were among the higher-paid occupations in this group. On the other end of the wage scale, combined food preparation and serving workers, including fast food earned $\$ 9.21$ per hour in Boston.

With more than 2.4 million employed in the Boston metropolitan area, the largest major occupational group was office and administrative support with 424,860 jobs representing 17.2 percent of area employment. (See chart B and table A.) This group's local employment share did not differ significantly from the U.S. average of 17.3 percent. Nationally, this was also the largest occupational group.

As noted, 9 of the 22 occupational groups had higher-than-average concentrations in the Boston area. More specifically, 9 of the 10 occupational groups classified as management, professional, and related had higher employment shares locally than nationally, with education, training, and library being the only exception. For example, the healthcare practitioner and technical occupational group accounted for 6.3 percent of the Boston area employment, but 5.1 percent of United States employment. Similarly, the management occupational group made up 6.2 percent of local employment, but 4.5 percent nationally. The computer and mathematical science group had a local employment share of 4.5 percent compared to the 2.4 percent national share.


In contrast, 8 of the 22 occupational groups had lower-than-average concentrations of employment within the Boston metropolitan area. Production and transportation and material moving jobs accounted for 5.0 and 4.9 percent, respectively, of local area employment, compared with 7.6 and 7.2 percent, respectively, nationally. Within the production group, three occupations accounted for nearly one-fifth of local employment- team assemblers, electrical and electronic equipment assemblers, and inspectors, testers, sorters, samplers, and weighers. Laborers and freight, stock, and material movers, hand made up one-quarter of the local employment in the transportation and material moving occupational group. The construction and extraction occupational group made up 3.3 percent of local employment, measurably below this group's national employment share of 5.0 percent. Within the construction and extraction occupational group, three occupations accounted for 42 percent of local employment: carpenters, construction laborers, and electricians.

## High-tech occupations

The Boston metropolitan area has a higher-than-average concentration of several occupational groups commonly found in "high-tech" industries which employ scientific, engineering, and technician workers: computer and mathematical science; architecture and engineering; and life, physical, and science. For convenience, these three occupational groups have been labeled "high-tech" occupations ${ }^{3}$. Among this high-tech grouping, it can easily be seen that the computer and mathematical science occupational group accounted for a significantly larger share of local employment in the Boston area (4.5 percent) when compared to the national average ( 2.4 percent). Likewise, in the architecture and engineering group the local employment share was 2.8 percent versus 1.9 percent nationally, and in the life, physical, and science group, it was 1.7 percent locally versus 0.9 percent nationwide.

Though the Boston area has one of the largest concentrations of high-tech occupations in the country, there are other metropolitan areas with similar high employment shares in the three occupational groups being examined. Two of these areas - San Francisco and Washington, D.C. ${ }^{4}$ - were chosen for comparison with Boston, not only because of the higher-than-average presence of high-tech occupations, but because of their similarity in employment size. The following examines average hourly wages for the three "high-tech" occupational groups in these three metropolitan areas.

Like Boston, the San Francisco and Washington, D.C. metropolitan areas reported average hourly wages that were significantly above the national averages of the three high-tech occupational groups. (See table B.) For instance, hourly wages for the computer and mathematical science occupational group in San Francisco ( $\$ 42.27$ ) was nearly 22 percent higher than the national average and in both Boston (\$40.94) and Washington, D.C. (\$40.90), it was almost 18 percent higher. The life, physical, and social science occupational group earned 32 percent more in Washington (\$39.47), nearly 23 percent more in San Francisco (\$36.65), and approximately 18 percent more in Boston (\$35.06) than it did nationally.

[^1][^2]Table B. Average hourly wage by selected major occupational group, United States and three selected metropolitan areas, May 2007

| Major occupational group | Average hourly wage |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | United States | San Francisco- <br> Oakland-Fremont | Washington- <br> Arlington-Alexandria | Boston-Cambridge- <br> Quincy |
| Computer and mathematical science | 34.71 | $42.27^{*}$ | $40.90^{*}$ | $40.94^{*}$ |
| Architecture and engineering | 33.11 | $39.39^{*}$ | $39.07^{*}$ | $37.71^{*}$ |
| Life, physical, and social science | 29.82 | $36.65^{*}$ | $39.47 *$ | $35.06 *$ |

* Indicates a wage that differs significantly from the national wage at the 90 -percent confidence level.

In a comparison of high-tech occupational wages across the three areas, San Francisco and Washington had significantly higher wages than Boston in two of the three occupational groupsarchitecture and engineering and life, physical, and social science. (See table C.) For example, the average hourly wage for architecture and engineering occupations in San Francisco, at $\$ 39.39$, was 4.5 percent higher than the wage in Boston (\$37.71). For workers in life, physical, and social science occupations, the average wage earned in Washington (\$39.47) was 12.6 percent more than the comparable wage in Boston (\$35.06). In the remaining occupational group, computer and mathematical science, the average wage in San Francisco surpassed that in Boston by 3.2 percent, but the average wage for such workers in Washington did not differ significantly from that in Boston.

Table C. Average hourly wage by selected major occupational group, Boston and two selected metropolitan areas, May 2007

| Major occupational group | Average hourly wage |  |  |
| :--- | :---: | :---: | :---: |
|  | Boston-Cambridge- <br> Quincy | San Francisco-Oakland- <br> Fremont | Washington-Arlington <br> Alexandria |
| Computer and mathematical science | 40.94 | $42.27^{*}$ | 40.90 |
| Architecture and engineering | 37.71 | $39.39 *$ | $39.07 *$ |
| Life, physical, and social science | 35.06 | $36.65 *$ | $39.47 *$ |

* Indicates a wage that differs significantly from the Boston, MA wage at the 90-percent confidence level.

The OES wage and employment data for the 22 major occupational groups in the Boston-Cambridge-Quincy metropolitan area were compared with their respective national averages based on statistical significance testing. Only those occupations with wages or employment shares above or below the national wage or share after testing for significance at the 90-percent confidence level meet the criteria. NOTE: A value that is statistically different from another does not necessarily mean that the difference has economic or practical significance. Statistical significance is concerned with the ability to make confident statements about a universe based on a sample. It is entirely possible that a large difference between two values is not significantly different statistically, while a small difference is, since both the size and heterogeneity of the sample affect the relative error of the data being tested.

## Technical Note

The Occupational Employment Statistics (OES) survey is a semiannual mail survey measuring occupational employment and wage rates for wage and salary workers in nonfarm establishments in the United States. Guam, Puerto Rico, and the Virgin Islands also are surveyed, but their data are not included in this release. OES estimates are constructed from a sample of about 1.2 million establishments. Forms are mailed to approximately 200,000 establishments in May and November of each year for a 3-year period. The nationwide response rate for the May 2007 survey was 77.9 percent based on establishments and 73.5 percent based on employment. The survey included establishments sampled in the May 2007, November 2006, May 2006, November 2005, May 2005, and November 2004 semiannual panels. The sample in the Boston-Cambridge-Quincy metropolitan area included 19,950 establishments with a response rate of 73 percent.

## The occupational coding system

The OES survey uses the Office of Management and Budget's (OMB) occupational classification system, the Standard Occupational Classification (SOC) system. The SOC system is the first OMB-required occupational classification system for Federal agencies. The OES survey categorizes workers in 1 of 801 detailed occupations. Together, these detailed occupations make up 23 major occupational groups, 22 of which are covered in this release. The one exception is military specific occupations which are not included in the OES survey.

For more information about the SOC system, please see the Bureau of Labor Statistics (BLS) Web site at http://www.bls.gov/soc/.

## The industry coding system

The OES survey uses the North American Industry Classification System (NAICS). For more information about NAICS, see the BLS Web site at http://www.bls.gov/bls/naics.htm.

## Survey sample

BLS funds the survey and provides the procedures and technical support, while the State Workforce Agencies (SWAs) collect most of the data. BLS produces cross-industry and industry-specific estimates for the Nation, States, metropolitan statistical areas (MSAs), metropolitan divisions, and nonmetropolitan areas. Industry-specific estimates are produced at the NAICS sector, 3digit, 4-digit, and selected 5-digit industry levels. BLS releases all cross-industry and national estimates; the SWAs release industry-specific estimates at the State and MSA levels.

State Unemployment Insurance (UI) files provide the universe from which the OES survey draws its sample. Employment benchmarks are obtained from reports submitted by employers to the UI program. The OES survey sample is stratified by metropolitan and nonmetropolitan areas and industry. Samples selected in panels prior to May 2005 were stratified using MSA definitions based on the 1990 Metropolitan Statistical Area standards. Beginning with the May 2005 panel, the sample was stratified using new MSA definitions based on the 2000 Metropolitan Statistical Area standards.

## Concepts

Occupational employment is the estimate of total wage and salary employment in an
occupation across the industries surveyed. The OES survey defines employment as the number of workers who can be classified as full- or part-time employees, including workers on paid vacations or other types of paid leave; workers on unpaid short-term absences; salaried officers, executives, and staff members of incorporated firms; employees temporarily assigned to other units; and employees for whom the reporting unit is their permanent duty station regardless of whether that unit prepares their paycheck.

Wages for the OES survey are straight-time, gross pay, exclusive of premium pay. Base rate, cost-of-living allowances, guaranteed pay, hazardous-duty pay, incentive pay including commissions and production bonuses, tips, and on-call pay are included. Excluded are: back pay, jury duty pay, overtime pay, severance pay, shift differentials, non-production bonuses, employer cost for supplementary benefits, and tuition reimbursements.

Mean hourly wage. The mean hourly wage rate for an occupation is the total wages that all workers in the occupation earn in an hour divided by the total employment of the occupation. To calculate the mean hourly wage of each occupation, total weighted hourly wages are summed across all intervals and divided by the occupation's weighted survey employment. The mean wage for each interval is based on occupational wage data collected by the BLS Office of Compensation and Working Conditions for the National Compensation Survey (NCS).

Annual Wage. Many employees are paid at an hourly rate by their employers and may work more than or less than 40 hours per week. Annual wage estimates for most occupations in this release are calculated by multiplying the mean hourly wage by a "year-round, full-time" figure of 2,080 hours ( 52 weeks by 40 hours). Thus, annual wage estimates may not represent the actual annual pay received by the employee if they work more or less than 2,080 hours per year. Some workers typically work less than fulltime, year round. For these occupations, the OES survey collects and reports either the annual salary or the hourly wage rate, depending on how the occupation is typically paid, but not both. For example, teachers, flight attendants, and pilots may be paid an annual salary, but do not work the usual 2,080 hours per year. In this case, an annual salary is reported. Other workers, such as entertainment workers, are paid hourly rates, but generally do not work full time, year round. For these workers, only an hourly wage is reported.

Hourly versus Annual Wage Reporting. For each occupation, respondents are asked to report the number of employees paid within specific wage intervals. The intervals are defined both as hourly rates and the corresponding annual rates, where the annual rate for an occupation is calculated by multiplying the hourly wage rate by a typical work year of 2,080 hours. The responding establishment can reference either the hourly or the annual rate for full-time workers, but they are instructed to report the hourly rate for part-time workers.

## Estimation methodology

Each OES panel includes approximately 200,000 establishments. The OES survey is designed to produce estimates using six panels (3 years) of data. The full six-panel sample of 1.2 million establishments allows the production of estimates at detailed levels of geography, industry, and occupation.

Wage Updating. Significant reductions in sampling errors are obtained by combining six panels of data, particularly for small geographic areas and occupations. Wages for the current panel need no adjustment. However, wages in the five previous panels need to be updated to the current panel's reference period.

The OES program uses the BLS Employment Cost Index (ECI) to adjust survey data from prior panels before combining them with the current panel's data. The wage updating procedure adjusts each detailed occupation's wage rate, as measured in the earlier panel, according to the average movement of its broader occupational division. The procedure assumes that there are no major differences by geography, industry, or detailed occupation within the occupational division.

May 2007 OES survey estimates. The May 2007 OES survey estimates are based on all data collected from establishments in the May 2007, November 2006, May 2006, November 2005, May 2005, November 2004 semiannual samples.

Reliability of the estimates. Estimates calculated from a sample survey are subject to two types of error: sampling and nonsampling. Sampling error occurs when estimates are calculated from a subset (that is, a sample) of the population instead of the full population. When a sample of the population is surveyed, there is a chance that the sample estimate of the characteristic of interest may differ from the population value of that characteristic. Differences between the sample estimate and the population value will vary depending on the sample selected. This variability can be estimated by calculating the standard error (SE) of the sample estimate. If we were to repeat the sampling and estimation process countless times using the same survey design, approximately 90 percent of the intervals created by adding and subtracting 1.645 SEs from the sample estimate would include the population value. These intervals are called 90-percent confidence intervals. The OES survey, however, usually uses the relative standard error (RSE) of a sample estimate instead of its SE to measure sampling error. RSE is defined as the SE of a sample estimate divided by the sample estimate itself. This statistic provides the user with a measure of the relative precision of the sample estimate. RSEs are calculated for both occupational employment and mean wage rate estimates. Occupational employment RSEs are calculated using a subsample, random group replication technique called the jackknife. Mean wage rate RSEs are calculated using a variance components model that accounts for both the observed and unobserved components of the wage data. The variances of the unobserved components are estimated using wage data from the BLS National Compensation Survey. In general, estimates based on many establishments have lower RSEs than estimates based on few establishments. If the distributional assumptions of the models are violated, the resulting confidence intervals may not reflect the prescribed level of confidence.

Nonsampling error occurs for a variety of reasons, none of which are directly connected to sampling. Examples of nonsampling error include: nonresponse, data incorrectly reported by the respondent, mistakes made in entering collected data into the database, and mistakes made in editing and processing the collected data.

## Additional information

The May 2007 OES national data by occupation, comparable to data in table 1, are available on the BLS Web site at www.bls.gov/oes. Users also may access each occupation's definition and percentile wages. The May 2007 cross-industry data for states, metropolitan statistical areas, metropolitan divisions, and nonmetropolitan areas are also available on the BLS web site. Industry staffing patterns at the sector, 3-, 4-, and selected 5-digit NAICS levels are also available from the Internet. These data include industry-specific occupational employment and wage data. A more detailed technical note for OES is available at http://www.bls.gov/oes/\#news.

OES data are available on our regional web page at http://www.bls.gov/ro1/home.htm.

If you have additional questions, contact the BLS New England (Boston) Economic Analysis and Information Unit at 617-565-2327. This information will be made available to sensory impaired individuals upon request. Voice phone: (617) 565-2072, Federal Relay Services: 1-800-877-8339.

## Upcoming Reduction in Sample Size of Occupational Employment Statistics Survey

Due to budget constraints, Occupational Employment Statistics has reduced the sample size of the May 2008 panel by 20 percent. Because OES estimates are produced from 3 years of pooled data, this one-time sample reduction will affect estimates for May 2008, May 2009, and May 2010. This reduction is expected to decrease the number of published employment estimates by at least 5 percent, or about 25,000 estimates, and will decrease the accuracy of the remaining estimates. The number and quality of wage estimates also are expected to decline. These cutbacks are being implemented in response to a reduction in funding to the BLS that resulted from The 2008 Consolidated Appropriations Act enacted on December 26, 2007.


| Computer specialists, all other | 2,560 | \$37.00 | \$76,960 | \$35.78 |
| :---: | :---: | :---: | :---: | :---: |
| Actuaries | 890 | \$47.52 | \$98,850 | \$42.71 |
| Mathematicians | 160 | \$41.12 | \$85,530 | \$39.71 |
| Operations research analysts | 2,100 | \$38.09 | \$79,220 | \$37.51 |
| Statisticians | 780 | \$38.49 | \$80,060 | \$37.22 |
| Architecture and engineering occupations | 69,240 | \$37.71 | \$78,440 | \$35.78 |
| Architects, except landscape and naval | 3,450 | \$40.79 | \$84,840 | \$37.19 |
| Landscape architects | 580 | \$34.12 | \$70,960 | \$34.94 |
| Cartographers and photogrammetrists | 70 | \$29.92 | \$62,230 | \$28.76 |
| Surveyors | 1,230 | \$25.76 | \$53,590 | \$24.26 |
| Aerospace engineers | 800 | \$47.74 | \$99,300 | \$47.61 |
| Biomedical engineers | 1,260 | \$44.95 | \$93,500 | \$40.07 |
| Chemical engineers | 1,230 | \$42.73 | \$88,870 | \$39.73 |
| Civil engineers | 5,660 | \$39.04 | \$81,190 | \$36.97 |
| Computer hardware engineers | 4,640 | \$48.82 | \$101,540 | \$48.30 |
| Electrical engineers | 6,470 | (3) | (3) | (3) |
| Electronics engineers, except computer | 4,760 | \$44.26 | \$92,060 | \$43.27 |
| Environmental engineers | 1,940 | \$37.98 | \$79,000 | \$36.80 |
| Health and safety engineers, except mining safety engineers and inspectors | 650 | \$41.28 | \$85,860 | \$39.37 |
| Industrial engineers | (4) | \$39.79 | \$82,760 | \$39.29 |
| Marine engineers and naval architects | (4) | \$38.48 | \$80,030 | \$38.57 |
| Materials engineers | 460 | \$42.19 | \$87,750 | \$42.45 |
| Mechanical engineers | 6,370 | \$41.49 | \$86,290 | \$39.81 |
| Engineers, all other | 4,540 | \$44.10 | \$91,730 | \$44.81 |
| Architectural and civil drafters | 2,390 | \$24.04 | \$50,010 | \$22.67 |
| Electrical and electronics drafters | 1,080 | \$29.04 | \$60,400 | \$27.86 |
| Mechanical drafters | 1,070 | \$32.62 | \$67,850 | \$30.01 |
| Drafters, all other | (4) | \$24.05 | \$50,020 | \$27.17 |
| Aerospace engineering and operations technicians | 40 | \$26.56 | \$55,250 | \$27.33 |
| Civil engineering technicians | 620 | \$24.15 | \$50,240 | \$24.09 |
| Electrical and electronic engineering technicians | (4) | \$26.33 | \$54,770 | \$25.15 |
| Electro-mechanical technicians | 760 | \$21.99 | \$45,740 | \$21.33 |
| Environmental engineering technicians | 520 | \$22.59 | \$46,990 | \$21.98 |
| Industrial engineering technicians | 1,920 | \$26.56 | \$55,250 | \$24.87 |
| Mechanical engineering technicians | 1,560 | \$25.21 | \$52,430 | \$23.86 |
| Engineering technicians, except drafters, all other | 1,180 | \$27.20 | \$56,570 | \$25.91 |
| Surveying and mapping technicians | 570 | \$20.91 | \$43,500 | \$20.72 |
| Life, physical, and social science occupations | 41,280 | \$35.06 | \$72,930 | \$32.06 |
| Food scientists and technologists | 340 | \$32.04 | \$66,650 | \$30.95 |
| Soil and plant scientists | 40 | \$26.10 | \$54,280 | \$24.56 |
| Biochemists and biophysicists | 2,560 | \$43.19 | \$89,840 | \$41.83 |
| Microbiologists | 870 | \$28.48 | \$59,240 | \$25.10 |
| Zoologists and wildlife biologists | (4) | \$36.56 | \$76,050 | \$38.72 |
| Biological scientists, all other | 740 | \$37.96 | \$78,950 | \$35.64 |
| Conservation scientists | 160 | \$30.93 | \$64,320 | \$27.97 |
| Foresters | 30 | \$25.25 | \$52,510 | \$26.04 |
| Epidemiologists | 150 | \$32.08 | \$66,720 | \$30.87 |
| Medical scientists, except epidemiologists | 4,940 | \$43.52 | \$90,520 | \$40.14 |
| Life scientists, all other | 160 | \$42.14 | \$87,660 | \$42.67 |
| Physicists | 420 | \$52.92 | \$110,070 | \$51.46 |
| Atmospheric and space scientists | 450 | \$35.44 | \$73,720 | \$30.99 |
| Chemists | 2,650 | \$39.41 | \$81,960 | \$37.56 |
| Materials scientists | 360 | \$44.97 | \$93,540 | \$44.16 |
| Environmental scientists and specialists, including health | 2,340 | \$41.64 | \$86,620 | \$41.60 |
| Geoscientists, except hydrologists and geographers | 400 | \$31.47 | \$65,460 | \$27.46 |
| Hydrologists | 80 | \$40.59 | \$84,430 | \$41.90 |
| Physical scientists, all other | 490 | \$44.00 | \$91,510 | \$44.18 |
| Economists | 690 | \$35.36 | \$73,550 | \$31.17 |
| Market research analysts | 8,070 | \$36.19 | \$75,270 | \$33.37 |
| Survey researchers | 470 | \$21.43 | \$44,580 | \$18.10 |
| Clinical, counseling, and school psychologists | 2,480 | \$33.52 | \$69,710 | \$32.35 |
| Industrial-organizational psychologists | 50 | \$38.12 | \$79,290 | \$37.39 |
| Psychologists, all other | 270 | \$34.98 | \$72,760 | \$35.59 |
| Sociologists | 100 | \$39.04 | \$81,200 | \$37.96 |
| Urban and regional planners | 1,020 | \$33.05 | \$68,740 | \$32.91 |
| Anthropologists and archeologists | (4) | \$26.10 | \$54,280 | \$22.54 |
| Historians | 80 | \$29.83 | \$62,040 | \$29.11 |
| Social scientists and related workers, all other | 830 | \$32.54 | \$67,680 | \$30.68 |
| Agricultural and food science technicians | 220 | \$20.55 | \$42,740 | \$17.95 |
| Biological technicians | 5,090 | \$25.73 | \$53,530 | \$23.64 |
| Chemical technicians | 1,460 | \$23.10 | \$48,050 | \$20.83 |
| Geological and petroleum technicians | (4) | \$20.00 | \$41,590 | \$18.13 |
| Nuclear technicians | (4) | \$29.08 | \$60,490 | \$24.11 |
| Social science research assistants | 690 | \$25.54 | \$53,130 | \$22.43 |
| Environmental science and protection technicians, including health | 840 | \$20.52 | \$42,670 | \$20.34 |
| Forensic science technicians | 60 | (3) | (3) | (3) |
| Life, physical, and social science technicians, all other | 720 | \$24.71 | \$51,400 | \$22.23 |
| Community and social services occupations | 41,610 | \$20.89 | \$43,450 | \$19.22 |
| Substance abuse and behavioral disorder counselors | 940 | \$20.25 | \$42,120 | \$18.35 |
| Educational, vocational, and school counselors | 4,970 | \$25.48 | \$53,000 | \$24.86 |
| Marriage and family therapists | 130 | \$23.84 | \$49,590 | \$22.85 |


| Mental health counselors | 3,880 | \$18.53 | \$38,540 | \$17.22 |
| :---: | :---: | :---: | :---: | :---: |
| Rehabilitation counselors | 2,380 | \$17.09 | \$35,540 | \$15.01 |
| Counselors, all other | 590 | \$16.09 | \$33,460 | \$15.22 |
| Child, family, and school social workers | 6,370 | \$23.29 | \$48,450 | \$23.00 |
| Medical and public health social workers | 3,760 | \$24.76 | \$51,490 | \$24.94 |
| Mental health and substance abuse social workers | 3,600 | \$19.85 | \$41,290 | \$18.79 |
| Social workers, all other | 630 | \$24.52 | \$51,000 | \$23.05 |
| Health educators | (4) | \$27.03 | \$56,220 | \$24.15 |
| Probation officers and correctional treatment specialists | (4) | \$30.35 | \$63,130 | \$31.96 |
| Social and human service assistants | (4) | \$15.47 | \$32,170 | \$14.22 |
| Community and social service specialists, all other | 1,500 | \$18.26 | \$37,980 | \$16.85 |
| Clergy | 350 | \$23.42 | \$48,720 | \$22.04 |
| Directors, religious activities and education | 100 | \$19.24 | \$40,020 | \$17.70 |
| Legal occupations | 21,650 | \$47.96 | \$99,760 | \$37.78 |
| Lawyers | 12,760 | \$61.86 | \$128,670 | \$56.06 |
| Administrative law judges, adjudicators, and hearing officers | 170 | \$36.66 | \$76,240 | \$34.04 |
| Arbitrators, mediators, and conciliators | 260 | \$32.71 | \$68,030 | \$28.67 |
| Judges, magistrate judges, and magistrates | 570 | \$58.57 | \$121,830 | \$61.83 |
| Paralegals and legal assistants | 6,500 | \$25.32 | \$52,660 | \$24.31 |
| Court reporters | 100 | \$30.52 | \$63,490 | \$30.72 |
| Law clerks | 380 | \$23.16 | \$48,180 | \$23.05 |
| Title examiners, abstractors, and searchers | 380 | \$25.89 | \$53,850 | \$24.70 |
| Legal support workers, all other | 530 | \$27.82 | \$57,850 | \$23.96 |
| Education, training, and library occupations | 159,140 | \$25.49 | \$53,030 | \$23.30 |
| Business teachers, postsecondary | 1,400 | (3) | \$98,700 | (3) |
| Computer science teachers, postsecondary | 800 | (3) | \$88,160 | (3) |
| Mathematical science teachers, postsecondary | 850 | (3) | \$74,820 | (3) |
| Architecture teachers, postsecondary | 120 | (3) | \$81,060 | (3) |
| Engineering teachers, postsecondary | 910 | (3) | \$104,740 | (3) |
| Biological science teachers, postsecondary | 1,330 | (3) | \$108,390 | (3) |
| Atmospheric, earth, marine, and space sciences teachers, postsecondary | 230 | (3) | \$95,140 | (3) |
| Chemistry teachers, postsecondary | 350 | (3) | \$84,720 | (3) |
| Environmental science teachers, postsecondary | 110 | (3) | \$78,600 | (3) |
| Physics teachers, postsecondary | 410 | (3) | \$94,360 | (3) |
| Anthropology and archeology teachers, postsecondary | 130 | (3) | \$77,440 | (3) |
| Area, ethnic, and cultural studies teachers, postsecondary | 300 | (3) | \$72,670 | (3) |
| Economics teachers, postsecondary | 360 | (3) | \$104,760 | (3) |
| Geography teachers, postsecondary | 70 | (3) | \$71,740 | (3) |
| Political science teachers, postsecondary | 380 | (3) | \$92,210 | (3) |
| Psychology teachers, postsecondary | 830 | (3) | \$74,510 | (3) |
| Sociology teachers, postsecondary | 370 | (3) | \$64,500 | (3) |
| Social sciences teachers, postsecondary, all other | 140 | (3) | \$84,820 | (3) |
| Health specialties teachers, postsecondary | 2,940 | (3) | \$114,550 | (3) |
| Nursing instructors and teachers, postsecondary | 920 | (3) | \$64,430 | (3) |
| Education teachers, postsecondary | 950 | (3) | \$62,940 | (3) |
| Library science teachers, postsecondary | (4) | (3) | \$44,270 | (3) |
| Criminal justice and law enforcement teachers, postsecondary | 210 | (3) | \$61,800 | (3) |
| Law teachers, postsecondary | 520 | (3) | \$93,220 | (3) |
| Social work teachers, postsecondary | 260 | (3) | \$62,270 | (3) |
| Art, drama, and music teachers, postsecondary | 2,810 | (3) | \$72,210 | (3) |
| Communications teachers, postsecondary | 420 | (3) | \$64,020 | (3) |
| English language and literature teachers, postsecondary | 1,460 | (3) | \$61,460 | (3) |
| Foreign language and literature teachers, postsecondary | 550 | (3) | \$75,220 | (3) |
| History teachers, postsecondary | 490 | (3) | \$76,930 | (3) |
| Philosophy and religion teachers, postsecondary | 350 | (3) | \$74,430 | (3) |
| Graduate teaching assistants | 1,890 | (3) | \$45,290 | (3) |
| Recreation and fitness studies teachers, postsecondary | 170 | (3) | \$59,130 | (3) |
| Vocational education teachers, postsecondary | 1,490 | \$26.40 | \$54,910 | \$23.01 |
| Preschool teachers, except special education | 11,410 | \$14.18 | \$29,490 | \$13.48 |
| Kindergarten teachers, except special education | 2,730 | (3) | \$49,210 | (3) |
| Elementary school teachers, except special education | 23,820 | (3) | \$57,600 | (3) |
| Middle school teachers, except special and vocational education | 12,750 | (3) | \$56,940 | (3) |
| Vocational education teachers, middle school | 130 | (3) | \$58,780 | (3) |
| Secondary school teachers, except special and vocational education | 18,930 | (3) | \$57,560 | (3) |
| Vocational education teachers, secondary school | 1,440 | (3) | \$60,610 | (3) |
| Special education teachers, preschool, kindergarten, and elementary school | 5,000 | (3) | \$53,050 | (3) |
| Special education teachers, middle school | (4) | (3) | \$57,190 | (3) |
| Special education teachers, secondary school | (4) | (3) | \$57,540 | (3) |
| Adult literacy, remedial education, and GED teachers and instructors | 1,180 | \$22.78 | \$47,380 | \$21.74 |
| Self-enrichment education teachers | 6,000 | \$18.81 | \$39,130 | \$17.00 |
| Teachers and instructors, all other | 5,610 | (3) | \$36,760 | (3) |
| Archivists | 210 | \$25.50 | \$53,030 | \$24.23 |
| Curators | 360 | \$29.79 | \$61,960 | \$28.38 |
| Museum technicians and conservators | 320 | \$21.68 | \$45,090 | \$20.01 |
| Librarians | 3,810 | \$28.86 | \$60,040 | \$27.94 |
| Library technicians | 2,580 | \$17.89 | \$37,210 | \$17.52 |
| Audio-visual collections specialists | 170 | \$23.14 | \$48,130 | \$23.02 |
| Instructional coordinators | 2,260 | \$32.46 | \$67,510 | \$32.21 |
| Teacher assistants | 25,600 | (3) | \$24,930 | (3) |
| Education, training, and library workers, all other | 960 | \$21.79 | \$45,330 | \$20.40 |
| Arts, design, entertainment, sports, and media occupations | 39,980 | \$26.61 | \$55,350 | \$23.19 |


| Art directors | 1,160 | \$48.72 | \$101,340 | \$39.31 |
| :---: | :---: | :---: | :---: | :---: |
| Craft artists | 170 | \$17.83 | \$37,100 | \$16.01 |
| Fine artists, including painters, sculptors, and illustrators | 240 | \$21.53 | \$44,770 | \$21.90 |
| Multi-media artists and animators | 650 | \$25.74 | \$53,530 | \$24.60 |
| Artists and related workers, all other | 310 | \$33.79 | \$70,290 | \$29.16 |
| Commercial and industrial designers | 710 | \$33.67 | \$70,040 | \$33.33 |
| Fashion designers | 220 | \$29.80 | \$61,990 | \$27.74 |
| Floral designers | 1,360 | \$14.67 | \$30,520 | \$14.45 |
| Graphic designers | 4,500 | \$23.55 | \$48,970 | \$22.39 |
| Interior designers | 1,640 | \$29.15 | \$60,640 | \$27.01 |
| Merchandise displayers and window trimmers | 820 | \$16.66 | \$34,660 | \$15.56 |
| Set and exhibit designers | (4) | \$27.46 | \$57,120 | \$30.65 |
| Designers, all other | 200 | \$32.02 | \$66,610 | \$32.54 |
| Producers and directors | 1,480 | \$31.12 | \$64,720 | \$24.52 |
| Athletes and sports competitors | 130 | (3) | (3) | (3) |
| Coaches and scouts | 3,430 | (3) | \$42,650 | (3) |
| Umpires, referees, and other sports officials | 110 | (3) | \$26,050 | (3) |
| Choreographers | (4) | \$19.27 | \$40,080 | \$13.90 |
| Music directors and composers | 120 | \$32.19 | \$66,950 | \$26.80 |
| Entertainers and performers, sports and related workers, all other | 40 | \$23.33 | (3) | \$23.63 |
| Public address system and other announcers | 60 | \$17.44 | \$36,280 | \$16.88 |
| Broadcast news analysts | 150 | \$46.24 | \$96,180 | \$34.98 |
| Reporters and correspondents | 860 | \$20.63 | \$42,910 | \$18.68 |
| Public relations specialists | 6,920 | \$29.57 | \$61,510 | \$25.93 |
| Editors | 3,530 | \$30.03 | \$62,470 | \$28.30 |
| Technical writers | 2,240 | \$36.23 | \$75,350 | \$35.97 |
| Writers and authors | 720 | \$29.02 | \$60,350 | \$25.70 |
| Interpreters and translators | 810 | \$20.98 | \$43,640 | \$19.82 |
| Media and communication workers, all other | 290 | \$26.49 | \$55,100 | \$23.77 |
| Audio and video equipment technicians | 1,110 | \$19.83 | \$41,250 | \$18.91 |
| Broadcast technicians | 520 | \$17.10 | \$35,560 | \$12.49 |
| Sound engineering technicians | 160 | \$25.94 | \$53,950 | \$21.14 |
| Photographers | 1,260 | \$16.19 | \$33,680 | \$13.61 |
| Camera operators, television, video, and motion picture | 330 | \$24.42 | \$50,790 | \$23.73 |
| Film and video editors | 200 | \$36.51 | \$75,930 | \$28.79 |
| Media and communication equipment workers, all other | 250 | \$36.78 | \$76,500 | \$37.17 |
| Healthcare practitioners and technical occupations | 155,220 | \$36.11 | \$75,110 | \$31.38 |
| Chiropractors | 370 | \$42.46 | \$88,310 | \$37.53 |
| Dentists, general | 1,560 | \$72.15 | \$150,080 | \$69.90 |
| Oral and maxillofacial surgeons | 200 | \$86.82 | \$180,580 | (2) |
| Orthodontists | 90 | \$96.27 | \$200,230 | (2) |
| Dentists, all other specialists | (4) | \$54.41 | \$113,180 | 56.64 |
| Dietitians and nutritionists | 1,310 | \$26.50 | \$55,120 | 25.16 |
| Optometrists | 480 | \$45.12 | \$93,860 | 42.94 |
| Pharmacists | 4,870 | \$42.46 | \$88,310 | 43.71 |
| Anesthesiologists | 440 | \$91.52 | \$190,360 | (2) |
| Family and general practitioners | 1,270 | \$86.81 | \$180,570 | (2) |
| Internists, general | 2,060 | \$88.02 | \$183,080 | (2) |
| Obstetricians and gynecologists | 400 | \$87.44 | \$181,870 | (2) |
| Pediatricians, general | 1,410 | \$71.50 | \$148,720 | (2) |
| Psychiatrists | 860 | \$82.06 | \$170,680 | (2) |
| Surgeons | 1,440 | \$99.23 | \$206,390 | (2) |
| Physicians and surgeons, all other | 6,720 | \$69.53 | \$144,610 | (2) |
| Physician assistants | 1,650 | \$40.47 | \$84,180 | \$39.98 |
| Podiatrists | 140 | \$58.73 | \$122,160 | \$50.05 |
| Registered nurses | 59,660 | \$36.95 | \$76,860 | \$35.89 |
| Audiologists | 170 | \$30.02 | \$62,440 | \$30.11 |
| Occupational therapists | 2,950 | \$30.59 | \$63,630 | \$30.21 |
| Physical therapists | 4,470 | \$33.15 | \$68,950 | \$32.75 |
| Radiation therapists | 360 | \$34.92 | \$72,640 | \$35.44 |
| Recreational therapists | 620 | \$19.27 | \$40,090 | \$19.06 |
| Respiratory therapists | 1,780 | \$27.97 | \$58,170 | \$27.86 |
| Speech-language pathologists | 2,030 | \$31.48 | \$65,490 | \$30.62 |
| Therapists, all other | 240 | \$26.38 | \$54,870 | \$25.47 |
| Veterinarians | 910 | \$39.40 | \$81,950 | \$37.71 |
| Health diagnosing and treating practitioners, all other | 870 | \$45.20 | \$94,010 | \$34.17 |
| Medical and clinical laboratory technologists | 6,130 | \$25.51 | \$53,060 | \$25.86 |
| Medical and clinical laboratory technicians | (4) | \$18.06 | \$37,560 | \$17.18 |
| Dental hygienists | 4,040 | \$35.93 | \$74,740 | \$36.34 |
| Cardiovascular technologists and technicians | 920 | \$26.57 | \$55,270 | \$24.70 |
| Diagnostic medical sonographers | 1,010 | \$33.95 | \$70,610 | \$33.95 |
| Nuclear medicine technologists | 350 | \$34.87 | \$72,530 | \$34.39 |
| Radiologic technologists and technicians | 4,620 | \$31.69 | \$65,900 | \$31.73 |
| Emergency medical technicians and paramedics | 4,280 | \$18.44 | \$38,350 | \$17.10 |
| Dietetic technicians | 1,100 | \$13.83 | \$28,760 | \$11.70 |
| Pharmacy technicians | 4,320 | \$14.24 | \$29,620 | \$13.73 |
| Psychiatric technicians | 300 | \$16.41 | \$34,130 | \$16.66 |
| Respiratory therapy technicians | 200 | \$25.82 | \$53,710 | \$25.05 |
| Surgical technologists | 1,470 | \$20.72 | \$43,100 | \$20.15 |
| Veterinary technologists and technicians | 1,480 | \$15.99 | \$33,260 | \$15.50 |
| Licensed practical and licensed vocational nurses | 12,010 | \$23.70 | \$49,290 | \$23.53 |


| Medical records and health information technicians | 3,840 | \$16.78 | \$34,900 | \$15.20 |
| :---: | :---: | :---: | :---: | :---: |
| Opticians, dispensing | 830 | \$25.42 | \$52,860 | \$21.73 |
| Orthotists and prosthetists | 180 | \$23.65 | \$49,190 | \$23.07 |
| Health technologists and technicians, all other | 690 | \$21.50 | \$44,710 | \$20.71 |
| Occupational health and safety specialists | 790 | \$32.38 | \$67,350 | \$31.99 |
| Occupational health and safety technicians | 90 | \$23.60 | \$49,080 | \$22.51 |
| Athletic trainers | 450 | (3) | \$41,000 | (3) |
| Healthcare practitioners and technical workers, all other | 550 | \$29.18 | \$60,690 | \$27.48 |
| Healthcare support occupations | 66,610 | \$14.55 | \$30,270 | \$13.92 |
| Home health aides | 12,320 | \$12.30 | \$25,580 | \$12.25 |
| Nursing aides, orderlies, and attendants | 27,750 | \$13.63 | \$28,350 | \$13.50 |
| Psychiatric aides | 4,610 | \$14.32 | \$29,790 | \$14.15 |
| Occupational therapist assistants | 620 | \$21.73 | \$45,200 | \$21.82 |
| Occupational therapist aides | 210 | \$15.06 | \$31,320 | \$14.30 |
| Physical therapist assistants | (4) | \$22.60 | \$47,000 | \$22.24 |
| Physical therapist aides | 590 | \$14.11 | \$29,350 | \$13.63 |
| Massage therapists | 600 | \$20.00 | \$41,600 | \$17.72 |
| Dental assistants | 4,900 | \$18.50 | \$38,490 | \$18.19 |
| Medical assistants | 7,150 | \$16.19 | \$33,680 | \$15.75 |
| Medical equipment preparers | 810 | \$15.35 | \$31,930 | \$14.84 |
| Medical transcriptionists | 1,330 | \$19.82 | \$41,220 | \$18.36 |
| Pharmacy aides | 1,180 | \$10.60 | \$22,040 | \$10.17 |
| Veterinary assistants and laboratory animal caretakers | 1,110 | \$14.46 | \$30,080 | \$13.76 |
| Healthcare support workers, all other | (4) | \$16.14 | \$33,570 | \$15.82 |
| Protective service occupations | 53,680 | \$20.97 | \$43,610 | \$20.18 |
| First-line supervisors/managers of correctional officers | 50 | \$37.16 | \$77,290 | \$34.95 |
| First-line supervisors/managers of police and detectives | (4) | \$38.31 | \$79,680 | \$37.62 |
| First-line supervisors/managers of fire fighting and prevention workers | (4) | \$34.83 | \$72,440 | \$33.07 |
| First-line supervisors/managers, protective service workers, all other | 700 | \$22.66 | \$47,140 | \$19.95 |
| Fire fighters | 8,370 | \$25.12 | \$52,250 | \$24.20 |
| Fire inspectors and investigators | 190 | \$28.65 | \$59,590 | \$29.24 |
| Bailiffs | 1,300 | \$26.22 | \$54,530 | \$24.48 |
| Detectives and criminal investigators | (4) | \$34.05 | \$70,830 | \$32.27 |
| Parking enforcement workers | 660 | \$16.68 | \$34,700 | \$16.54 |
| Police and sheriff's patrol officers | 10,790 | \$25.63 | \$53,320 | \$25.48 |
| Animal control workers | 260 | \$16.50 | \$34,330 | \$16.38 |
| Security guards | (4) | \$12.84 | \$26,700 | \$12.09 |
| Crossing guards | 1,220 | \$12.86 | \$26,760 | \$12.04 |
| Lifeguards, ski patrol, and other recreational protective service workers | 2,050 | \$11.30 | \$23,500 | \$10.80 |
| Protective service workers, all other | 730 | \$14.98 | \$31,160 | \$12.83 |
| Food preparation and serving related occupations | 189,370 | \$11.28 | \$23,470 | \$10.05 |
| Chefs and head cooks | 3,230 | \$21.72 | \$45,170 | \$19.55 |
| First-line supervisors/managers of food preparation and serving workers | 11,530 | \$16.93 | \$35,210 | \$16.49 |
| Cooks, fast food | 4,700 | \$9.95 | \$20,710 | \$9.19 |
| Cooks, institution and cafeteria | 4,000 | \$14.11 | \$29,360 | \$13.97 |
| Cooks, restaurant | 13,540 | \$12.69 | \$26,400 | \$12.59 |
| Cooks, short order | 3,870 | \$11.24 | \$23,380 | \$10.98 |
| Cooks, all other | 400 | \$15.17 | \$31,540 | \$11.75 |
| Food preparation workers | 17,410 | \$10.26 | \$21,340 | \$9.55 |
| Bartenders | 11,570 | \$11.87 | \$24,680 | \$11.38 |
| Combined food preparation and serving workers, including fast food | 36,590 | \$9.21 | \$19,150 | \$8.73 |
| Counter attendants, cafeteria, food concession, and coffee shop | 12,780 | \$9.42 | \$19,600 | \$8.85 |
| Waiters and waitresses | 41,300 | \$11.80 | \$24,540 | \$11.61 |
| Food servers, nonrestaurant | (4) | \$11.09 | \$23,070 | \$10.21 |
| Dining room and cafeteria attendants and bartender helpers | 6,510 | \$10.37 | \$21,580 | \$9.41 |
| Dishwashers | 10,280 | \$9.30 | \$19,340 | \$8.92 |
| Hosts and hostesses, restaurant, lounge, and coffee shop | 6,500 | \$10.20 | \$21,210 | \$9.98 |
| Food preparation and serving related workers, all other | 510 | \$9.25 | \$19,230 | \$7.90 |
| Building and grounds cleaning and maintenance occupations | 79,210 | \$13.74 | \$28,590 | \$12.81 |
| First-line supervisors/managers of housekeeping and janitorial workers | 3,460 | \$20.27 | \$42,170 | \$18.85 |
| First-line supervisors/managers of landscaping, lawn service, and groundskeeping workers | 2,010 | \$23.78 | \$49,470 | \$23.11 |
| Janitors and cleaners, except maids and housekeeping cleaners | 43,600 | \$13.08 | \$27,210 | \$12.51 |
| Maids and housekeeping cleaners | 13,860 | \$11.28 | \$23,460 | \$11.08 |
| Building cleaning workers, all other | 590 | \$13.50 | \$28,090 | \$13.51 |
| Pest control workers | 720 | \$16.18 | \$33,660 | \$15.61 |
| Landscaping and groundskeeping workers | 14,310 | \$14.83 | \$30,850 | \$14.07 |
| Pesticide handlers, sprayers, and applicators, vegetation | 230 | \$17.48 | \$36,360 | \$17.76 |
| Tree trimmers and pruners | 360 | \$19.25 | \$40,040 | \$19.92 |
| Grounds maintenance workers, all other | 70 | \$16.67 | \$34,670 | \$13.99 |
| Personal care and service occupations | 56,610 | \$14.46 | \$30,070 | \$11.94 |
| First-line supervisors/managers of personal service workers | 2,520 | \$19.77 | \$41,130 | \$17.45 |
| Animal trainers | (4) | \$13.63 | \$28,340 | \$11.36 |
| Nonfarm animal caretakers | 1,650 | \$11.77 | \$24,480 | \$10.53 |
| Gaming and sports book writers and runners | 290 | \$14.01 | \$29,130 | \$12.93 |
| Motion picture projectionists | 130 | \$11.52 | \$23,960 | \$10.89 |
| Ushers, lobby attendants, and ticket takers | 1,900 | \$9.30 | \$19,350 | \$8.64 |
| Amusement and recreation attendants | 2,150 | \$10.52 | \$21,880 | \$9.55 |
| Costume attendants | 80 | \$18.75 | \$38,990 | \$16.95 |
| Locker room, coatroom, and dressing room attendants | 320 | \$10.50 | \$21,840 | \$10.27 |
| Entertainment attendants and related workers, all other | 210 | \$11.29 | \$23,490 | \$10.80 |


| Embalmers | (4) | \$28.51 | \$59,300 | \$24.92 |
| :---: | :---: | :---: | :---: | :---: |
| Funeral attendants | 270 | \$16.07 | \$33,430 | \$16.13 |
| Barbers | (4) | \$12.91 | \$26,860 | \$13.68 |
| Hairdressers, hairstylists, and cosmetologists | 7,570 | \$14.46 | \$30,070 | \$13.50 |
| Manicurists and pedicurists | 890 | \$11.57 | \$24,070 | \$10.89 |
| Shampooers | 610 | \$9.72 | \$20,220 | \$9.33 |
| Skin care specialists | 880 | \$16.06 | \$33,410 | \$16.20 |
| Baggage porters and bellhops | 900 | \$12.07 | \$25,100 | \$9.95 |
| Concierges | 970 | \$14.21 | \$29,560 | \$14.02 |
| Tour guides and escorts | 790 | \$13.16 | \$27,370 | \$13.28 |
| Flight attendants | 2,450 | (3) | (3) | (3) |
| Transportation attendants, except flight attendants and baggage porters | 660 | \$9.37 | \$19,480 | \$8.60 |
| Child care workers | 7,780 | \$10.89 | \$22,650 | \$10.49 |
| Personal and home care aides | 9,900 | \$11.43 | \$23,770 | \$11.22 |
| Fitness trainers and aerobics instructors | 6,010 | \$22.01 | \$45,780 | \$20.63 |
| Recreation workers | 5,230 | \$12.77 | \$26,550 | \$11.58 |
| Residential advisors | 1,140 | \$14.09 | \$29,300 | \$13.11 |
| Personal care and service workers, all other | 760 | \$12.83 | \$26,690 | \$11.47 |
| Sales and related occupations | 257,040 | \$20.79 | \$43,250 | \$13.44 |
| First-line supervisors/managers of retail sales workers | 19,440 | \$20.14 | \$41,890 | \$18.24 |
| First-line supervisors/managers of non-retail sales workers | 6,160 | \$42.34 | \$88,060 | \$38.11 |
| Cashiers | 57,680 | \$9.55 | \$19,860 | \$8.97 |
| Counter and rental clerks | 6,270 | \$13.57 | \$28,230 | \$11.33 |
| Parts salespersons | 3,190 | \$16.11 | \$33,510 | \$15.45 |
| Retail salespersons | 78,540 | \$12.30 | \$25,580 | \$10.35 |
| Advertising sales agents | 2,640 | \$29.59 | \$61,550 | \$22.00 |
| Insurance sales agents | 4,480 | \$37.44 | \$77,870 | \$29.07 |
| Securities, commodities, and financial services sales agents | 8,010 | \$48.56 | \$101,010 | \$37.49 |
| Travel agents | 2,320 | \$16.67 | \$34,680 | \$15.34 |
| Sales representatives, services, all other | 10,950 | \$32.46 | \$67,520 | \$28.96 |
| Sales representatives, wholesale and manufacturing, technical and scientific products | 17,140 | \$42.80 | \$89,020 | \$37.81 |
| Sales representatives, wholesale and manufacturing, except technical and scientific products | 25,640 | \$34.15 | \$71,030 | \$30.14 |
| Demonstrators and product promoters | 720 | \$14.05 | \$29,230 | \$12.23 |
| Real estate brokers | (4) | \$34.66 | \$72,100 | \$25.57 |
| Real estate sales agents | 1,480 | \$37.12 | \$77,200 | \$28.67 |
| Sales engineers | 3,420 | \$44.51 | \$92,570 | \$42.07 |
| Telemarketers | 5,300 | \$17.66 | \$36,740 | \$15.57 |
| Door-to-door sales workers, news and street vendors, and related workers | (4) | \$16.88 | \$35,110 | \$15.52 |
| Sales and related workers, all other | 2,570 | \$22.54 | \$46,890 | \$21.13 |
| Office and administrative support occupations | 424,860 | \$17.64 | \$36,700 | \$16.81 |
| First-line supervisors/managers of office and administrative support workers | 25,900 | \$26.34 | \$54,790 | \$25.13 |
| Switchboard operators, including answering service | 3,280 | \$13.28 | \$27,620 | \$12.89 |
| Telephone operators | 210 | \$14.57 | \$30,300 | \$13.81 |
| Communications equipment operators, all other | 50 | \$20.14 | \$41,890 | \$19.48 |
| Bill and account collectors | 7,690 | \$17.86 | \$37,140 | \$17.19 |
| Billing and posting clerks and machine operators | 10,840 | \$16.76 | \$34,850 | \$16.35 |
| Bookkeeping, accounting, and auditing clerks | 36,970 | \$18.38 | \$38,230 | \$17.99 |
| Payroll and timekeeping clerks | 4,220 | \$19.33 | \$40,200 | \$19.01 |
| Procurement clerks | 1,670 | (3) | (3) | (3) |
| Tellers | 10,980 | \$13.07 | \$27,180 | \$12.74 |
| Brokerage clerks | 3,890 | \$18.66 | \$38,810 | \$18.33 |
| Correspondence clerks | 520 | \$17.32 | \$36,030 | \$17.36 |
| Court, municipal, and license clerks | 1,180 | \$21.48 | \$44,670 | \$21.26 |
| Credit authorizers, checkers, and clerks | 550 | \$18.99 | \$39,510 | \$17.85 |
| Customer service representatives | 43,900 | \$18.33 | \$38,120 | \$17.35 |
| Eligibility interviewers, government programs | 1,600 | \$22.14 | \$46,050 | \$22.33 |
| File clerks | 3,930 | \$12.38 | \$25,760 | \$11.75 |
| Hotel, motel, and resort desk clerks | 2,300 | \$11.91 | \$24,770 | \$11.90 |
| Interviewers, except eligibility and loan | (4) | \$15.88 | \$33,020 | \$15.36 |
| Library assistants, clerical | 2,350 | \$13.68 | \$28,450 | \$13.31 |
| Loan interviewers and clerks | 3,110 | \$17.79 | \$37,000 | \$16.96 |
| New accounts clerks | 1,220 | \$17.04 | \$35,440 | \$16.60 |
| Order clerks | 3,710 | \$17.10 | \$35,570 | \$15.74 |
| Human resources assistants, except payroll and timekeeping | 2,540 | \$19.20 | \$39,940 | \$18.64 |
| Receptionists and information clerks | 19,030 | \$12.88 | \$26,800 | \$12.44 |
| Reservation and transportation ticket agents and travel clerks | 2,100 | \$16.55 | \$34,420 | \$16.64 |
| All other information and record clerks | (4) | \$16.61 | \$34,550 | \$16.23 |
| Cargo and freight agents | 1,050 | \$20.68 | \$43,010 | \$20.22 |
| Couriers and messengers | 2,230 | \$12.98 | \$27,000 | \$11.92 |
| Police, fire, and ambulance dispatchers | 1,770 | \$18.95 | \$39,410 | \$18.25 |
| Dispatchers, except police, fire, and ambulance | 2,830 | \$18.37 | \$38,220 | \$17.31 |
| Meter readers, utilities | 540 | \$18.51 | \$38,500 | \$18.72 |
| Postal service clerks | 1,770 | \$21.49 | \$44,700 | \$21.77 |
| Postal service mail carriers | 6,730 | \$21.34 | \$44,380 | \$21.61 |
| Postal service mail sorters, processors, and processing machine operators | 3,490 | \$20.39 | \$42,400 | \$21.35 |
| Production, planning, and expediting clerks | 4,850 | \$23.33 | \$48,530 | \$22.64 |
| Shipping, receiving, and traffic clerks | 14,530 | \$15.85 | \$32,970 | \$15.28 |
| Stock clerks and order fillers | 28,480 | \$12.23 | \$25,430 | \$11.02 |
| Weighers, measurers, checkers, and samplers, recordkeeping | 720 | \$17.50 | \$36,390 | \$17.33 |


| Executive secretaries and administrative assistants | 36,190 | \$22.46 | \$46,720 | \$22.09 |
| :---: | :---: | :---: | :---: | :---: |
| Legal secretaries | 4,690 | \$23.70 | \$49,290 | \$23.43 |
| Medical secretaries | 14,180 | \$16.95 | \$35,260 | \$16.49 |
| Secretaries, except legal, medical, and executive | 28,700 | \$17.56 | \$36,520 | \$17.27 |
| Computer operators | 1,590 | \$19.16 | \$39,850 | \$18.92 |
| Data entry keyers | 5,260 | \$14.20 | \$29,540 | \$13.75 |
| Word processors and typists | 1,150 | \$16.62 | \$34,570 | \$15.97 |
| Desktop publishers | (4) | \$22.65 | \$47,120 | \$21.75 |
| Insurance claims and policy processing clerks | 4,890 | \$18.37 | \$38,210 | \$17.73 |
| Mail clerks and mail machine operators, except postal service | 3,090 | \$14.08 | \$29,290 | \$13.80 |
| Office clerks, general | 48,000 | \$14.72 | \$30,610 | \$14.05 |
| Office machine operators, except computer | 1,840 | \$13.56 | \$28,200 | \$13.19 |
| Proofreaders and copy markers | 660 | \$17.88 | \$37,200 | \$17.00 |
| Statistical assistants | 450 | \$19.94 | \$41,480 | \$19.06 |
| Office and administrative support workers, all other | 2,250 | \$15.78 | \$32,820 | \$15.94 |
| Farming, fishing, and forestry occupations | 1,890 | \$11.77 | \$24,470 | \$10.04 |
| First-line supervisors/managers of farming, fishing, and forestry workers | 180 | \$17.80 | \$37,030 | \$14.48 |
| Graders and sorters, agricultural products | 410 | \$10.14 | \$21,080 | \$8.33 |
| Farmworkers and laborers, crop, nursery, and greenhouse | 410 | \$11.17 | \$23,220 | \$10.13 |
| Farmworkers, farm and ranch animals | (4) | \$9.47 | \$19,690 | \$9.24 |
| Forest and conservation workers | 90 | \$19.46 | \$40,480 | \$20.51 |
| Construction and extraction occupations | 81,710 | \$25.03 | \$52,060 | \$23.80 |
| First-line supervisors/managers of construction trades and extraction workers | 7,200 | \$34.57 | \$71,900 | \$33.84 |
| Boilermakers | (4) | \$26.12 | \$54,340 | \$26.51 |
| Brickmasons and blockmasons | 1,200 | \$34.99 | \$72,780 | \$37.09 |
| Stonemasons | 430 | \$24.55 | \$51,060 | \$24.11 |
| Carpenters | 14,450 | \$24.80 | \$51,580 | \$23.99 |
| Carpet installers | 630 | \$25.87 | \$53,810 | \$28.58 |
| Floor layers, except carpet, wood, and hard tiles | 260 | \$24.89 | \$51,780 | \$20.42 |
| Tile and marble setters | 300 | \$23.69 | \$49,270 | \$22.23 |
| Cement masons and concrete finishers | 1,230 | \$22.09 | \$45,940 | \$20.84 |
| Terrazzo workers and finishers | (4) | \$28.71 | \$59,710 | \$33.65 |
| Construction laborers | 10,200 | \$21.51 | \$44,730 | \$21.25 |
| Paving, surfacing, and tamping equipment operators | 930 | \$20.57 | \$42,780 | \$19.01 |
| Pile-driver operators | 170 | \$33.19 | \$69,020 | \$32.71 |
| Operating engineers and other construction equipment operators | 3,270 | \$27.47 | \$57,130 | \$27.15 |
| Drywall and ceiling tile installers | 400 | \$22.46 | \$46,720 | \$21.25 |
| Tapers | 280 | \$33.30 | \$69,260 | \$34.74 |
| Electricians | 9,650 | \$27.03 | \$56,230 | \$26.24 |
| Glaziers | 850 | \$19.83 | \$41,240 | \$18.83 |
| Insulation workers, floor, ceiling, and wall | 740 | \$17.52 | \$36,430 | \$16.29 |
| Insulation workers, mechanical | 520 | \$24.30 | \$50,530 | \$18.98 |
| Painters, construction and maintenance | 3,020 | \$18.65 | \$38,790 | \$17.25 |
| Pipelayers | 470 | \$21.23 | \$44,150 | \$19.67 |
| Plumbers, pipefitters, and steamfitters | 7,420 | \$28.56 | \$59,400 | \$27.70 |
| Plasterers and stucco masons | 390 | \$25.46 | \$52,950 | \$26.10 |
| Reinforcing iron and rebar workers | (4) | \$22.97 | \$47,790 | \$25.06 |
| Roofers | 1,290 | \$25.08 | \$52,170 | \$22.01 |
| Sheet metal workers | 2,880 | \$25.56 | \$53,160 | \$25.10 |
| Structural iron and steel workers | 960 | \$32.36 | \$67,300 | \$32.77 |
| Helpers--brickmasons, blockmasons, stonemasons, and tile and marble setters | 420 | \$18.93 | \$39,370 | \$14.88 |
| Helpers--carpenters | 900 | \$17.14 | \$35,660 | \$17.06 |
| Helpers--electricians | 1,850 | \$15.01 | \$31,220 | \$14.13 |
| Helpers--painters, paperhangers, plasterers, and stucco masons | 210 | \$12.02 | \$24,990 | \$12.36 |
| Helpers--pipelayers, plumbers, pipefitters, and steamfitters | 620 | \$14.24 | \$29,620 | \$13.99 |
| Helpers--roofers | 160 | \$15.54 | \$32,320 | \$14.63 |
| Helpers, construction trades, all other | 370 | \$13.11 | \$27,270 | \$12.86 |
| Construction and building inspectors | 1,670 | \$23.57 | \$49,030 | \$23.42 |
| Elevator installers and repairers | 620 | \$35.96 | \$74,790 | \$37.41 |
| Fence erectors | 590 | \$15.13 | \$31,460 | \$14.75 |
| Hazardous materials removal workers | 1,060 | \$17.76 | \$36,940 | \$17.49 |
| Highway maintenance workers | 1,790 | \$19.57 | \$40,710 | \$19.36 |
| Septic tank servicers and sewer pipe cleaners | 510 | \$18.65 | \$38,780 | \$18.44 |
| Construction and related workers, all other | 550 | \$26.34 | \$54,790 | \$20.05 |
| Earth drillers, except oil and gas | 320 | \$20.22 | \$42,050 | \$19.24 |
| Helpers--extraction workers | 90 | \$13.24 | \$27,540 | \$12.64 |
| Extraction workers, all other | 90 | (3) | (3) | (3) |
| Installation, maintenance, and repair occupations | 75,360 | \$22.46 | \$46,720 | \$21.42 |
| First-line supervisors/managers of mechanics, installers, and repairers | 6,200 | \$31.08 | \$64,640 | \$30.28 |
| Computer, automated teller, and office machine repairers | 2,280 | \$20.67 | \$43,000 | \$20.88 |
| Radio mechanics | (4) | \$20.71 | \$43,070 | \$19.26 |
| Telecommunications equipment installers and repairers, except line installers | 4,560 | \$28.87 | \$60,050 | \$29.97 |
| Avionics technicians | 160 | \$24.83 | \$51,640 | \$26.88 |
| Electric motor, power tool, and related repairers | 240 | \$19.88 | \$41,350 | \$19.93 |
| Electrical and electronics installers and repairers, transportation equipment | 80 | \$19.14 | \$39,810 | \$18.96 |
| Electrical and electronics repairers, commercial and industrial equipment | 1,070 | \$25.46 | \$52,960 | \$25.23 |
| Electrical and electronics repairers, powerhouse, substation, and relay | 690 | \$29.02 | \$60,360 | \$29.15 |
| Electronic equipment installers and repairers, motor vehicles | 330 | \$15.18 | \$31,580 | \$14.63 |


| Electronic home entertainment equipment installers and repairers | 390 | \$17.84 | \$37,110 | \$17.67 |
| :---: | :---: | :---: | :---: | :---: |
| Security and fire alarm systems installers | 1,540 | \$23.51 | \$48,900 | \$23.05 |
| Aircraft mechanics and service technicians | 820 | \$27.85 | \$57,920 | \$26.74 |
| Automotive body and related repairers | 3,080 | \$21.12 | \$43,920 | \$20.62 |
| Automotive glass installers and repairers | 440 | \$19.12 | \$39,780 | \$17.00 |
| Automotive service technicians and mechanics | 10,810 | \$20.03 | \$41,670 | \$19.01 |
| Bus and truck mechanics and diesel engine specialists | 2,650 | \$20.97 | \$43,620 | \$20.99 |
| Mobile heavy equipment mechanics, except engines | 1,160 | \$23.23 | \$48,330 | \$22.49 |
| Motorboat mechanics | 280 | \$20.36 | \$42,360 | \$20.27 |
| Motorcycle mechanics | 270 | \$16.74 | \$34,820 | \$15.63 |
| Outdoor power equipment and other small engine mechanics | 310 | \$16.14 | \$33,560 | \$16.48 |
| Bicycle repairers | 60 | \$11.79 | \$24,520 | \$11.49 |
| Recreational vehicle service technicians | 130 | \$16.07 | \$33,420 | \$15.52 |
| Tire repairers and changers | 710 | \$11.55 | \$24,020 | \$10.70 |
| Mechanical door repairers | (4) | \$19.32 | \$40,180 | \$20.10 |
| Control and valve installers and repairers, except mechanical door | 330 | \$26.82 | \$55,780 | \$27.63 |
| Heating, air conditioning, and refrigeration mechanics and installers | 5,810 | \$24.66 | \$51,290 | \$23.79 |
| Home appliance repairers | 540 | \$18.46 | \$38,390 | \$18.75 |
| Industrial machinery mechanics | 2,610 | \$23.12 | \$48,100 | \$22.96 |
| Maintenance and repair workers, general | 16,450 | \$19.65 | \$40,860 | \$19.25 |
| Maintenance workers, machinery | (4) | \$20.86 | \$43,390 | \$20.63 |
| Millwrights | 240 | \$22.10 | \$45,980 | \$21.25 |
| Electrical power-line installers and repairers | 1,040 | \$29.71 | \$61,790 | \$30.32 |
| Telecommunications line installers and repairers | 2,840 | \$28.35 | \$58,980 | \$30.39 |
| Camera and photographic equipment repairers | 70 | \$20.49 | \$42,610 | \$20.50 |
| Medical equipment repairers | 1,120 | \$19.93 | \$41,450 | \$15.55 |
| Musical instrument repairers and tuners | (4) | \$19.71 | \$41,000 | \$19.54 |
| Precision instrument and equipment repairers, all other | 100 | \$19.18 | \$39,890 | \$18.52 |
| Coin, vending, and amusement machine servicers and repairers | 260 | \$17.27 | \$35,930 | \$17.04 |
| Locksmiths and safe repairers | 470 | \$19.05 | \$39,610 | \$18.02 |
| Riggers | 210 | \$22.10 | \$45,960 | \$22.14 |
| Helpers--installation, maintenance, and repair workers | 2,000 | \$13.25 | \$27,570 | \$12.97 |
| Installation, maintenance, and repair workers, all other | 1,750 | \$20.45 | \$42,540 | \$18.61 |
| Production occupations | 123,270 | \$16.85 | \$35,050 | \$15.45 |
| First-line supervisors/managers of production and operating workers | 9,740 | \$27.59 | \$57,390 | \$26.73 |
| Coil winders, tapers, and finishers | 460 | \$15.26 | \$31,730 | \$12.85 |
| Electrical and electronic equipment assemblers | 7,620 | \$15.99 | \$33,270 | \$15.51 |
| Electromechanical equipment assemblers | 3,210 | \$15.52 | \$32,280 | \$15.09 |
| Engine and other machine assemblers | 520 | \$18.52 | \$38,530 | \$16.43 |
| Structural metal fabricators and fitters | 940 | \$18.35 | \$38,170 | \$18.23 |
| Fiberglass laminators and fabricators | 90 | \$15.36 | \$31,950 | \$15.92 |
| Team assemblers | 10,510 | \$13.51 | \$28,110 | \$13.00 |
| Timing device assemblers, adjusters, and calibrators | (4) | \$16.08 | \$33,450 | \$16.31 |
| Assemblers and fabricators, all other | 2,830 | \$13.91 | \$28,940 | \$12.86 |
| Bakers | 2,780 | \$12.90 | \$26,830 | \$11.68 |
| Butchers and meat cutters | 1,210 | \$17.38 | \$36,140 | \$16.78 |
| Meat, poultry, and fish cutters and trimmers | 1,320 | \$14.20 | \$29,530 | \$13.07 |
| Slaughterers and meat packers | 110 | \$13.30 | \$27,670 | \$11.46 |
| Food and tobacco roasting, baking, and drying machine operators and tenders | 160 | \$15.07 | \$31,350 | \$14.86 |
| Food batchmakers | 1,920 | \$13.42 | \$27,920 | \$12.93 |
| Food cooking machine operators and tenders | 290 | \$11.92 | \$24,800 | \$11.87 |
| Computer-controlled machine tool operators, metal and plastic | 2,030 | \$18.37 | \$38,210 | \$18.04 |
| Numerical tool and process control programmers | 270 | \$22.82 | \$47,460 | \$23.33 |
| Extruding and drawing machine setters, operators, and tenders, metal and plastic | 1,060 | \$16.12 | \$33,520 | \$15.46 |
| Forging machine setters, operators, and tenders, metal and plastic | 390 | \$15.32 | \$31,860 | \$15.15 |
| Rolling machine setters, operators, and tenders, metal and plastic | 140 | \$14.45 | \$30,060 | \$13.67 |
| Cutting, punching, and press machine setters, operators, and tenders, metal and plastic | 1,940 | \$15.54 | \$32,320 | \$15.10 |
| Drilling and boring machine tool setters, operators, and tenders, metal and plastic | 510 | \$19.91 | \$41,410 | \$19.82 |
| Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic | 1,230 | \$16.45 | \$34,210 | \$15.26 |
| Lathe and turning machine tool setters, operators, and tenders, metal and plastic | 950 | \$19.20 | \$39,940 | \$18.37 |
| Milling and planing machine setters, operators, and tenders, metal and plastic | 690 | \$19.43 | \$40,420 | \$18.52 |
| Machinists | 5,940 | \$19.91 | \$41,420 | \$19.45 |
| Metal-refining furnace operators and tenders | 70 | \$17.63 | \$36,670 | \$17.20 |
| Pourers and casters, metal | 130 | \$15.69 | \$32,640 | \$15.05 |
| Model makers, metal and plastic | 120 | \$23.27 | \$48,410 | \$22.85 |
| Patternmakers, metal and plastic | 80 | \$17.64 | \$36,680 | \$16.29 |
| Foundry mold and coremakers | 220 | \$17.94 | \$37,320 | \$18.45 |
| Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic | 1,950 | \$15.62 | \$32,490 | \$14.93 |
| Multiple machine tool setters, operators, and tenders, metal and plastic | 900 | \$17.09 | \$35,560 | \$16.23 |
| Tool and die makers | 710 | \$22.77 | \$47,360 | \$22.13 |
| Welders, cutters, solderers, and brazers | 2,440 | \$19.79 | \$41,160 | \$18.79 |
| Welding, soldering, and brazing machine setters, operators, and tenders | 800 | \$18.31 | \$38,080 | \$16.94 |
| Heat treating equipment setters, operators, and tenders, metal and plastic | 220 | \$16.84 | \$35,020 | \$16.03 |


| Lay-out workers, metal and plastic | (4) | \$19.49 | \$40,530 | \$19.69 |
| :---: | :---: | :---: | :---: | :---: |
| Plating and coating machine setters, operators, and tenders, metal and plastic | 1,130 | \$16.46 | \$34,240 | \$16.29 |
| Tool grinders, filers, and sharpeners | 110 | \$15.02 | \$31,250 | \$13.36 |
| Metal workers and plastic workers, all other | 830 | \$14.63 | \$30,430 | \$14.48 |
| Bindery workers | 1,280 | \$16.57 | \$34,460 | \$16.49 |
| Bookbinders | 100 | \$12.79 | \$26,600 | \$12.09 |
| Job printers | 680 | \$18.52 | \$38,530 | \$17.24 |
| Prepress technicians and workers | 1,330 | \$17.51 | \$36,430 | \$16.51 |
| Printing machine operators | 3,960 | \$17.56 | \$36,520 | \$17.03 |
| Laundry and dry-cleaning workers | 3,400 | \$10.63 | \$22,100 | \$9.96 |
| Pressers, textile, garment, and related materials | 830 | \$10.87 | \$22,610 | \$10.55 |
| Sewing machine operators | 1,460 | \$12.40 | \$25,800 | \$11.69 |
| Shoe and leather workers and repairers | (4) | \$12.67 | \$26,340 | \$9.43 |
| Sewers, hand | 280 | \$11.00 | \$22,890 | \$9.88 |
| Tailors, dressmakers, and custom sewers | 740 | \$11.74 | \$24,430 | \$10.68 |
| Textile bleaching and dyeing machine operators and tenders | 170 | \$14.77 | \$30,710 | \$14.28 |
| Textile cutting machine setters, operators, and tenders | 130 | \$13.38 | \$27,820 | \$13.16 |
| Textile knitting and weaving machine setters, operators, and tenders | 320 | \$13.39 | \$27,850 | \$13.43 |
| Textile winding, twisting, and drawing out machine setters, operators, and tenders | 190 | \$11.88 | \$24,700 | \$12.21 |
| Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers | 140 | \$18.01 | \$37,460 | \$17.02 |
| Fabric and apparel patternmakers | 60 | \$20.26 | \$42,150 | \$22.22 |
| Upholsterers | 210 | \$17.54 | \$36,490 | \$17.30 |
| Textile, apparel, and furnishings workers, all other | 360 | \$13.80 | \$28,700 | \$13.88 |
| Cabinetmakers and bench carpenters | 1,260 | \$16.76 | \$34,860 | \$16.67 |
| Furniture finishers | 270 | \$16.14 | \$33,560 | \$15.06 |
| Sawing machine setters, operators, and tenders, wood | 80 | \$15.60 | \$32,450 | \$14.83 |
| Woodworking machine setters, operators, and tenders, except sawing | 320 | \$14.36 | \$29,880 | \$13.99 |
| Woodworkers, all other | 150 | \$11.83 | \$24,610 | \$10.40 |
| Power plant operators | 390 | \$28.65 | \$59,590 | \$27.28 |
| Stationary engineers and boiler operators | 740 | \$23.62 | \$49,140 | \$22.92 |
| Water and liquid waste treatment plant and system operators | 1,110 | \$21.54 | \$44,800 | \$21.23 |
| Chemical plant and system operators | 60 | \$21.82 | \$45,390 | \$20.98 |
| Gas plant operators | (4) | \$28.76 | \$59,830 | \$28.62 |
| Petroleum pump system operators, refinery operators, and gaugers | (4) | \$19.74 | \$41,070 | \$19.81 |
| Plant and system operators, all other | 60 | \$26.87 | \$55,900 | \$27.69 |
| Chemical equipment operators and tenders | 580 | \$19.83 | \$41,250 | \$19.26 |
| Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders | 170 | \$21.74 | \$45,230 | \$19.20 |
| Crushing, grinding, and polishing machine setters, operators, and tenders | 160 | \$16.36 | \$34,030 | \$15.80 |
| Grinding and polishing workers, hand | 490 | \$13.44 | \$27,950 | \$12.55 |
| Mixing and blending machine setters, operators, and tenders | 1,420 | \$16.65 | \$34,630 | \$16.23 |
| Cutters and trimmers, hand | 520 | \$12.02 | \$25,000 | \$11.21 |
| Cutting and slicing machine setters, operators, and tenders | 1,470 | \$15.30 | \$31,820 | \$14.27 |
| Extruding, forming, pressing, and compacting machine setters, operators, and tenders | 1,120 | \$14.71 | \$30,600 | \$14.65 |
| Inspectors, testers, sorters, samplers, and weighers | 6,520 | \$19.69 | \$40,950 | \$18.29 |
| Jewelers and precious stone and metal workers | 440 | \$17.30 | \$35,980 | \$17.52 |
| Dental laboratory technicians | 670 | \$19.80 | \$41,180 | \$18.64 |
| Medical appliance technicians | 130 | \$22.61 | \$47,030 | \$19.90 |
| Ophthalmic laboratory technicians | 550 | \$12.82 | \$26,670 | \$12.51 |
| Packaging and filling machine operators and tenders | 5,110 | \$12.30 | \$25,590 | \$11.08 |
| Coating, painting, and spraying machine setters, operators, and tenders | 1,190 | \$15.58 | \$32,400 | \$14.79 |
| Painters, transportation equipment | 360 | \$20.23 | \$42,080 | \$18.79 |
| Painting, coating, and decorating workers | (4) | \$14.80 | \$30,780 | \$14.07 |
| Photographic process workers | 170 | \$12.21 | \$25,390 | \$11.50 |
| Photographic processing machine operators | 960 | \$10.94 | \$22,760 | \$10.01 |
| Semiconductor processors | 690 | \$18.66 | \$38,820 | \$18.58 |
| Cementing and gluing machine operators and tenders | 200 | \$15.41 | \$32,060 | \$15.53 |
| Cleaning, washing, and metal pickling equipment operators and tenders | 350 | \$13.38 | \$27,820 | \$13.25 |
| Cooling and freezing equipment operators and tenders | 120 | \$16.28 | \$33,860 | \$15.09 |
| Etchers and engravers | 200 | \$16.00 | \$33,280 | \$16.28 |
| Molders, shapers, and casters, except metal and plastic | 540 | \$17.32 | \$36,020 | \$15.21 |
| Paper goods machine setters, operators, and tenders | 960 | \$15.34 | \$31,920 | \$15.28 |
| Helpers--production workers | 5,110 | \$11.64 | \$24,210 | \$11.35 |
| Production workers, all other | 1,970 | \$15.95 | \$33,170 | \$14.85 |
| Transportation and material moving occupations | 120,030 | \$16.17 | \$33,630 | \$14.25 |
| Aircraft cargo handling supervisors | 100 | \$27.96 | \$58,150 | \$25.31 |
| First-line supervisors/managers of helpers, laborers, and material movers, hand | 2,220 | \$22.67 | \$47,150 | \$20.83 |
| First-line supervisors/managers of transportation and material-moving machine and vehicle operators | 3,200 | \$27.85 | \$57,940 | \$26.69 |
| Airline pilots, copilots, and flight engineers | 940 | (3) | (3) | (3) |
| Commercial pilots | 130 | (3) | \$77,040 | (3) |
| Ambulance drivers and attendants, except emergency medical technicians | 390 | \$11.66 | \$24,250 | \$11.38 |
| Bus drivers, transit and intercity | 1,850 | \$14.93 | \$31,050 | \$14.71 |
| Bus drivers, school | 7,200 | \$13.99 | \$29,100 | \$14.70 |
| Driver/sales workers | 4,610 | \$15.48 | \$32,210 | \$14.27 |
| Truck drivers, heavy and tractor-trailer | 16,480 | \$20.64 | \$42,930 | \$20.09 |


| Truck drivers, light or delivery services | 14,490 | $\$ 16.12$ | $\$ 33,540$ | $\$ 15.10$ |
| :--- | ---: | ---: | ---: | ---: |
| Taxi drivers and chauffeurs | 4,460 | $\$ 12.74$ | $\$ 26,500$ | $\$ 11.33$ |
| Motor vehicle operators, all other | 1,010 | $\$ 13.66$ | $\$ 28,410$ | $\$ 11.73$ |
| Sailors and marine oilers | $(4)$ | $\$ 17.57$ | $\$ 36,550$ | $\$ 17.40$ |
| Captains, mates, and pilots of water vessels | 610 | $\$ 24.04$ | $\$ 50,000$ | $\$ 19.98$ |
| Parking lot attendants | $(4)$ | $\$ 10.42$ | $\$ 21,680$ | $\$ 9.80$ |
| Service station attendants | 2,150 | $\$ 9.80$ | $\$ 20,390$ | $\$ 9.40$ |
| Traffic technicians | 80 | $\$ 21.58$ | $\$ 44,890$ | $\$ 21.82$ |
| Transportation inspectors | 130 | $\$ 32.25$ | $\$ 67,080$ | $\$ 33.91$ |
| Transportation workers, all other | 560 | $\$ 18.86$ | $\$ 39,230$ | $\$ 18.11$ |
| Conveyor operators and tenders | 430 | $\$ 14.15$ | $\$ 29,430$ | $\$ 13.85$ |
| Crane and tower operators | 280 | $\$ 28.57$ | $\$ 59,420$ | $\$ 29.23$ |
| Excavating and loading machine and dragline operators | 1,080 | $\$ 23.54$ | $\$ 48,970$ | $\$ 22.57$ |
| Industrial truck and tractor operators | 4,970 | $\$ 15.68$ | $\$ 32,610$ | $\$ 15.77$ |
| Cleaners of vehicles and equipment | 2,920 | $\$ 11.66$ | $\$ 24,250$ | $\$ 10.54$ |
| Laborers and freight, stock, and material movers, hand | 30,150 | $\$ 13.57$ | $\$ 28,230$ | $\$ 12.79$ |
| Machine feeders and offbearers | 920 | $\$ 13.40$ | $\$ 27,860$ | $\$ 13.20$ |
| Packers and packagers, hand | 12,190 | $\$ 10.33$ | $\$ 21,480$ | $\$ 9.40$ |
| Gas compressor and gas pumping station operators | $(4)$ | $\$ 23.38$ | $\$ 48,630$ | $\$ 22.90$ |
| Pump operators, except wellhead pumpers | 90 | $\$ 21.90$ | $\$ 45,540$ | $\$ 22.32$ |
| Refuse and recyclable material collectors | 1,210 | $\$ 17.15$ | $\$ 35,660$ | $\$ 17.96$ |
| Material moving workers, all other | 320 | $\$ 19.24$ | $\$ 40,020$ | $\$ 18.92$ |

1) Annual wages have been calculated by multiplying the hourly mean wage by a 'year-round, full-time' hours figure of 2,080 hours;
for those occupations where there is not an hourly mean wage published, the annual wage has been directly calculated from
the reported survey data.
(2) Represents a wage above $\$ 70.00$ per hour.
(3) Indicates that a wage estimate is not available.
(4) Indicates that an employment estimate is not available.

[^0]:    ${ }^{1}$ These estimates are calculated with data collected from employers in all industry sectors in the Boston-Cambridge-Quincy, Mass. -N.H. NECTA, a metropolitan area that includes parts of Massachusetts and New Hampshire. For metropolitan and nonmetropolitan area definitions used by the OES survey, please see the MSA definitions page located at http://www.bls.gov/oes/current/msa def.htm\#71650. Boston, the Boston metropolitan area, and other such abbreviations are used interchangeably to refer to this officially designated NECTA.
    ${ }^{2}$ Management, professional, and related occupations include: management; business and financial operations; computer and mathematical science; architecture and engineering; life, physical, and social science; community and social service; legal; education, training, and library; arts, design, entertainment, sports, and media; and healthcare practitioner and technical occupations.

[^1]:    ${ }^{3}$ This definition is derived from a list of specific high-tech occupations discussed in the Monthly Labor Review (MLR) article
    "High-technology employment July 2005: a NAICS-based update in July 2005". High-tech occupations were selected based on the knowledge of theories and principles of science, engineering, and mathematics underlying the technology used by employees functioning within such jobs.

[^2]:    ${ }^{4}$ The San Francisco-Oakland-Fremont, Calif. Metropolitan Area consists of Alameda, Contra Costa, Marin, San Francisco, and San Mateo counties. The Washington-Arlington-Alexandria, D.C.-Va.-Md.-W.V. Metropolitan Area consists of Frederick, Montgomery, Prince George's, Calvert, and Charles Counties in Maryland; Arlington, Clarke, Fairfax, Prince William, Spotsylvania, Stafford, Warren, Fauquier, and Loudon counties and Alexandria, Fairfax, Falls Church, Manassas Park, Manassas, and Fredericksburg cities in Virginia; Jefferson County in West Virginia; and the District of Columbia. For convenience, these are referred to as San Francisco and Washington (or by similarly abbreviated titles), respectively.

