

Long-term employment projections attempt to quantify the economy’s demand for jobs ten years into the future and provide insight into the state’s growing, stable, or declining industries and occupations. Job Service North Dakota’s Labor Market Information Center has just completed and finalized long-term projections through 2024 covering more than 100 industries and 700 occupations. Additionally, education and training projections have also been compiled. There are three education and training categories: typical entry-level education, related work experience, and typical on-the-job training. Detail occupations are assigned a classification for each of the three categories. After occupational projections are completed, the education and training classification assignments are aggregated resulting in education and training projections. Education and training projections assume that the education and training assignments of each occupation will not change between the base period and projected period. Education and training projections should not be interpreted as a strict measurement of education and training demand, rather, it’s a measurement of future occupational demand and related education and training assignments. The occupation projections section is grouped by typical entry-level education and arranged by Standard Occupational Classification (SOC) codes, making it easier to find similar occupations. Details for every disclosable occupation are displayed including estimated and projected employment, numeric and percent changes, and typical education and training requirements, along with a wealth of other information. Below is a sample layout and guide for the occupation projections section.

### SAMPLE LAYOUT

	Bachelor's degree											
	2014 Estimate	2024 Projection	Numeric Change	Percent Change	Job Growth Outlook	Growth Openings	Replacement Openings	Total Openings	Related Work Exp.	Typical OJT Training	Average 2015 Wages	
29-1141 Registered Nurses	8,392	10,442	<b>2,050</b>	<b>24.4</b>	High Growth	2,050	1,980	4,030	None	None	<b>\$58,890</b>	

- Occupational data are grouped by typical entry-level education and arranged by six-digit Standard Occupational Classification (SOC) codes, using the 2010 classification hierarchy. Due to confidentiality restrictions, it shouldn't be assumed that an occupation absent from the publication is absent from North Dakota's job market.
- Numeric change is the difference between the base year employment estimate and projection, and indicates net job creation or destruction. Numeric changes of 100 or greater have been bolded and lightly-shaded. The annualized numeric change is calculated by dividing the numeric change by the number of years in the projection period and rounding.
- Percent change is the rate of change, or growth rate, between the base year employment estimate and projection. High growth rates (20 percent or greater) have been bolded and lightly-shaded. The annualized percent change is the compound annual growth rate.
- An occupation's job growth outlook is based on how rapidly new jobs will be created over the next ten years relative to the average ten-year historical growth rate for all occupations over the last 15 years. Keep in mind, this indicator is based on the percent change or growth rate of an occupation, not on the number of anticipated growth openings. For more information, turn to page 7.
- Growth openings are the number of anticipated openings due to new job growth. If numeric change is negative, growth openings are zero. Annualized openings are calculated by dividing growth openings by the number of years in the projection period and rounding.
- Replacement openings are the number of anticipated openings due to workers who permanently leave an occupation (e.g. promotion, retirement, death, etc.). Replacements are openings for existing jobs; no new jobs are created. Annualized openings are calculated by dividing replacement openings by the number of years in the projection period and rounding. For more information, turn to page 6.
- Related work experience indicates if work experience in a related occupation is commonly considered necessary by employers for entry into the occupation, or is a commonly accepted substitute for formal types of training. For more information, turn to pages 4-5.
- Typical on-the-job training indicates the typical on-the-job training needed, once employed, to attain competency in the occupation. For more information, turn to pages 4-5.
- Occupational wage data, the latest available at the time of publication, originate from the 2015 Occupational Employment Statistics (OES) survey. Occupational wage data exclude overtime pay and earnings from self-employed workers. Above average wages have been bolded and lightly-shaded (the average North Dakota wage across all occupations is \$50,696).
- 'Bright Outlook' occupations are those with a 2014 base year employment estimate of 100 or greater, and projected growth openings of at least 100 or greater or a projected growth rate of at least 20 percent or greater. This designation does not constitute an endorsement, but instead highlights a group of diverse occupations with faster-than-average growth rates or a large number of growth openings. For more information, turn to page 7.

## DATA LIMITATIONS AND INTERPRETATION

Projections have some inherent data limitations which need to be acknowledged prior to their use in any type of industrial or occupational analysis. To avoid misinterpretation of the employment projections, please note the following:

- **Long-term projections indicate what is likely to happen given that historical, state-level employment patterns continue regardless of short-term business cycle fluctuations, taking into consideration variables such as population, labor force, productivity, and economic output growth. Because economic shocks are generally impossible to predict, long-term models assume a convergence back to long-term historical trends, though, this is far from certain.**
- **Certain economic assumptions are incorporated into the projections process and they include: the institutional framework of our economy will not radically change; current technological, scientific, and social trends will continue; and major events (e.g. natural disasters, terrorist attacks, conventional wars, etc.) will not be significant enough to alter the industrial structure of our economy or rate of economic growth.**
- **While it is impossible to project absolute industrial and occupational demand, it is conceivable to estimate changes in relative magnitude and probable direction. The reliability of projections is subject to error due to trend and regression analysis assumptions. Many unknown factors can and will affect the economy and job demand over the ten-year projections period.**
- **Projections measure occupational demand only; they do not measure the current or future supply of labor. Therefore, projections should be considered a starting point and used in conjunction with other sources of information, especially those relating to labor supply.**
- **Projections do not predict new occupations that may emerge due to technological advances or the development of new industries.**
- **Employment projections are based on a place-of-work methodology and count the number of jobs (including both full-time and part-time), not the number of employed persons. Since some people work at more than one job or commute from out-of-state, the total number of jobs will exceed the number of employed persons in the labor force (labor force employment is based on a place-of-residence methodology).**
- **Projected employment growth or decline is not expected to be constant over the ten-year period. For some industries or occupations, significant growth or decline may have already occurred early in the projections period.**
- **Projected growth rates could be interpreted as either recovery growth or beyond recovery growth depending on a recession's impact on a particular industry or occupation.**
- **Projections are more reliable the broader the industry or occupational category and less reliable as industries or occupations become increasingly detailed.**
- **Movement of a large or dominant corporation into or out of the state, which cannot be reliably predicted, could greatly alter employment levels within an industry and invalidate the projections for that industry.**
- **Occupational staffing pattern data, the distribution of occupations by industry, are collected on a three-year rotating cycle and may not be timely. The accuracy of the staffing pattern data may also be affected by sampling and nonsampling errors. Sampling errors are the differences between the estimates computed by inflating the results of a sample of employers and the results that would be obtained from a complete census of employers. Nonsampling errors result from errors in employers' responses and inadequate survey coverage and compilation. Careful attention is given to control for such errors.**

Despite the limitations of the employment projections data, this report represents an extensive and valuable tool for those interested in future employment patterns. This report can be useful for identifying areas of growth or decline, especially relative magnitudes of industrial and occupational employment changes. However, projections are not intended to be precise point estimates of employment for each industry or occupation. Also, due to inevitable adjustments or revisions to the employment time series between projection periods, comparisons to previously published projections data should be avoided.

## METHODOLOGY

North Dakota generates long-term employment projections every other year, which is the same cycle used by the U.S. Bureau of Labor Statistics (BLS) to produce national projections. The projections presented in this report start with a base year of 2014 projected to the year 2024. This round of projections was completed in June 2016 using data through May 2015.

In order to produce projections and promote consistency across fifty states, North Dakota utilizes the Projections Suite software system, which is a national standard product of the Projections Workgroup under the direction of the Projections Managing Partnership (PMP). The PMP works in cooperation with the Employment and Training Administration of the U.S. Department of Labor. The Projections Suite system was developed by the Utah Department of Technology Services. The system provides the capability to perform projections using accepted statistical methods and techniques.

- Developing and maintaining an employment time series.** An employment time series is constructed for all two- and three-digit (and select four-digit) 2012 North American Industry Classification System (NAICS) industries. The time series is primarily derived from data collected from business establishments as reported to the Quarterly Census of Employment and Wages (QCEW) program. Because QCEW captures only those jobs covered by unemployment insurance, the QCEW data is supplemented with noncovered employment data from the Current Employment Statistics (CES) program, the U.S. Census Bureau, the U.S. Bureau of Economic Analysis (BEA), and the U.S. Department of Agriculture (USDA). As a result, the time series not only includes traditional wage and salary employment, but it also includes jobs for self-employed and unpaid family workers, farmers and farm laborers, private household workers, and other residual noncovered employment, therefore, base employment estimates for the projections time series will be noticeably higher than reported in other employment statistics programs. Additionally, for select industries, public sector or government employment is combined with private sector employment in order to comply with the way occupational staffing pattern data are calculated. For example, in the employment time series used for projections, state and local government educational services employment moved from Government to Educational Services (NAICS 611), and state and local government hospital employment moved from Government to Hospitals (NAICS 622). Similarly, federal postal service employment moved to Postal Service (NAICS 491) and local government casino employment (primarily tribal employment) moved to Gambling Industries (NAICS 7132). As a result, the employment time series for these select industries will not match published employment figures from other employment statistics programs (e.g. CES, QCEW). After pre-projection edits and adjustments, the employment time series is imported and serves as the primary input for initial industry projections.
- Projecting employment for approximately 100 industries.** For a vast majority of industries, employment projections are developed through trend or regression analysis. Additional techniques are used where trend or regression analysis is not appropriate.
- Industry projections review.** Once industry projections are completed, employment levels and growth rates are reviewed by the projections analyst for accuracy, consistency, and reasonability and adjusted as necessary. A further review by a group of internal labor market analysts is conducted to ensure the projections accurately represent current and long-term trends in the North Dakota labor market.
- Projecting employment for approximately 700 occupations.** Detailed staffing patterns (the distribution of occupations by industry) are introduced into the projections process. Base year staffing pattern ratios are developed for each industry and applied to a corresponding base year employment figure. Then, projection staffing pattern ratios are developed by applying national change factors (the projected change in the distribution of occupations within an industry), as supplied by the U.S. Bureau of Labor Statistics, to base year staffing pattern ratios. The projection staffing pattern ratios are then merged with industry projections to yield occupation projections, which are proportionally adjusted to equal an industry's projected employment. The projected employment of an occupation, therefore, is based on changes in the proportion of workers in the occupation in each industry and the growth rates of the industries in which employment in that occupation is found. Staffing patterns are derived from the Occupational Employment Statistics (OES) program using the 2010 Standard Occupational Classification (SOC) system and based on 2015 survey data, the latest available at the time projections were computed. In cases where response to the OES survey is low or missing for a particular industry, national staffing patterns or staffing patterns from earlier OES surveys are substituted. Staffing patterns for industries not covered by the OES survey (e.g. self-employed and unpaid family workers, farmers and farm laborers, and private household workers) are derived from secondary sources such as the U.S. Census Bureau. Occupational estimates for self-employed and unpaid family workers are not industry-specific, and are reported as one sector, as opposed to being distributed across industries.
- Occupation projections review.** Once occupational projections are completed, employment levels and growth rates are reviewed by the projections analyst for accuracy, consistency, and reasonability and adjusted as necessary. A further review by a group of internal labor market analysts is conducted to ensure the projections accurately represent current and long-term trends in the North Dakota labor market.

## EDUCATION AND TRAINING CLASSIFICATION

The U.S. Bureau of Labor Statistics (BLS) created the education and training classification system which assigns education, work experience, and on-the-job training categories to hundreds of detailed occupations. This classification system was first used with the 2010–20 projections and replaced an earlier system that was used up until 2008. The two systems are not comparable. This classification system does not show the extent to which there are multiple paths of entry into an occupation. When an occupation has more than one path of entry, BLS identifies the path that research suggests is applicable to most current entrants. For example, the typical entry path for registered nurses is a bachelor's degree, with no work experience and no on-the-job training requirements. However, registered nurses can also obtain an associate's degree in nursing or a diploma from an approved nursing program. BLS economists make each assignment based on their knowledge, judgment, and analysis of data and interviews with educators, employers, training experts, and experts in professional and trade associations. Assignments are reviewed every projections cycle and modified or updated as necessary. Though the classification assignments are based on national research and may or may not reflect state-specific requirements for North Dakota, our review indicates a reasonable match for a vast majority of the occupations. The three assignments complement each other in that they represent a typical path of entry into an occupation, but they are not necessarily equal in importance for entry into the occupation.

### TYPICAL ENTRY-LEVEL EDUCATION

This category best describes the typical level of education that most workers need to enter an occupation. Occupations are assigned one of the education levels below:

- **Doctoral or professional degree [DD]:** Completion of a doctoral degree (Ph.D.) usually requires at least 3 years of full-time academic work beyond a bachelor's degree. Completion of a professional degree usually requires at least 3 years of full-time academic study beyond a bachelor's degree. Examples of occupations for which a doctoral or professional degree is the typical form of entry-level education include lawyers, physicists, and dentists.
- **Master's degree [MD]:** Completion of this degree usually requires 1 or 2 years of full-time academic study beyond a bachelor's degree. Examples of occupations in this category include statisticians, physician assistants, and educational, guidance, school, and vocational counselors.
- **Bachelor's degree [BD]:** Completion of this degree generally requires at least 4 years, but not more than 5 years, of full-time academic study beyond high school. Examples of occupations in this category include budget analysts, dietitians and nutritionists, and civil engineers.
- **Associate's degree [AD]:** Completion of this degree usually requires at least 2 years but not more than 4 years of full-time academic study beyond high school. Examples of occupations in this category include mechanical drafters, respiratory therapists, and dental hygienists.
- **Postsecondary nondegree award [PA]:** These programs lead to a certificate or other award, but not a degree. The certificate is awarded by the educational institution and is the result of completing formal postsecondary schooling. Certification, issued by a professional organization or certifying body, is not included here. Some postsecondary nondegree award programs last only a few weeks, while others may last 1 to 2 years. Examples of occupations in this category include nursing assistants, emergency medical technicians (EMTs) and paramedics, and hairstylists.
- **High school diploma or equivalent [HS]:** This category signifies the completion of high school or an equivalent program resulting in the award of a high school diploma or an equivalent, such as the General Education Development (GED) credential. Examples of occupations in this category include social and human service assistants, carpenters, and pharmacy technicians.
- **No formal educational credential [NC]:** This category signifies that a formal credential issued by an educational institution, such as a high school diploma or postsecondary certificate, is not typically needed for entry into the occupation. Examples of occupations in this category include janitors and cleaners, cashiers, and agricultural equipment operators.

### RELATED WORK EXPERIENCE

For some occupations, work experience in a related occupation may be a typical method of entry. The majority of occupations in this category are first-line supervisors of service, sales, and production occupations or managers of all occupations. Although work experience in a related occupation is beneficial for all occupations, this metric is meant to capture work experience that is commonly considered necessary by employers, or is a commonly accepted substitute

## EDUCATION AND TRAINING CLASSIFICATION

for other, more formal types of training or education. Occupations are assigned one of the categories below:

- **5 years or more [Y5]:** This is assigned to occupations if 5 years or more of work experience in a related occupation is typically needed for entry. Examples include financial managers and computer and information systems managers.
- **Less than 5 years [Y1]:** To enter occupations in this category, workers typically need less than 5 years of work experience in a related occupation. Examples include food service managers and database administrators.
- **None [NX]:** No work experience in a related occupation is typically required. Examples are audiologists and actuaries.

### TYPICAL ON-THE-JOB TRAINING

This category encompasses any additional training or preparation that is typically needed, once employed in an occupation, to attain competency in the skills needed in that occupation. Training is occupation-specific rather than job-specific; therefore, skills learned can be transferred to another job in the same occupation. Occupations are assigned one of the training categories below:

- **Internship/residency [IR]:** An internship or residency is training that involves preparation in a field such as teaching or medicine, generally under supervision in a professional setting, such as a classroom or hospital. This type of training may occur before one is employed. Completion of an internship or residency program is commonly required for state licensure or certification in fields including medicine, counseling, architecture, and teaching. This category does not include internships that are suggested for advancement in one's career, such as a marketing internship. Examples of occupations in the internship/residency category include physicians and surgeons and marriage and family therapists.
- **Apprenticeship [AP]:** An apprenticeship is a formal relationship between a worker and sponsor that consists of a combination of on-the-job training and related occupation-specific technical instruction in which the worker learns the practical and theoretical aspects of an occupation. Apprenticeship programs are sponsored by individual employers, joint employer and labor groups, and employer associations. The typical apprenticeship program provides at least 144 hours of occupation-specific technical instruction and 2,000 hours of on-the-job training per year, over a 3- to 5-year period. Examples of occupations in the apprenticeship category include electricians and structural iron and steel workers.
- **Long-term, on-the-job training (> 12 months) [LT]:** More than 12 months of on-the-job training or, alternatively, combined work experience and formal classroom instruction, is needed for workers to develop the skills to attain competency. Training is occupation-specific rather than job-specific; therefore, skills learned can be transferred to another job in the same occupation. This category also includes employer-sponsored training programs. Such programs include those offered by fire academies and schools for air traffic controllers. In other occupations—nuclear power reactor operators, for example—trainees take formal courses, often provided at the jobsite, to prepare for the required licensing exams. Also included in this category are occupations in which workers typically need to possess a natural ability or talent—including musicians and singers, athletes, dancers, photographers, and actors—and that ability or talent must be cultivated over several years, sometimes in a nonwork setting. This category excludes apprenticeships. Examples of occupations in the long-term category include opticians, dancers, and power plant operators.
- **Moderate-term, on-the-job training (1-12 months) [MT]:** Skills needed for a worker to attain competency in an occupation that can be acquired during 1 to 12 months of combined on-the-job experience and informal training. Training is occupation-specific rather than job-specific; therefore, skills learned can be transferred to another job in the same occupation. This category also includes employer-sponsored training programs. Examples of occupations in the moderate-term category include transit and intercity bus drivers and advertising sales agents.
- **Short-term, on-the-job training (< 30 days) [ST]:** Skills needed for a worker to attain competency in an occupation that can be acquired in less than 30 days of on-the-job experience and informal training. Training is occupation-specific rather than job-specific; therefore, skills learned can be transferred to another job in the same occupation. This category also includes employer-sponsored training programs. Examples of occupations in the short-term category include retail salespersons and maids and housekeeping cleaners.
- **None [NT]:** There is no additional occupation-specific training or preparation typically required to attain competency in the occupation. Examples of occupations that do not require occupation-specific on-the-job training include geographers and pharmacists.

## REPLACEMENT OPENINGS

Growth openings are the estimated number of new jobs to be created over a projections time horizon. But, opportunities also arise for existing jobs when workers permanently leave an occupation and need to be replaced. Replacement openings estimate the difference between the movement of experienced workers who change jobs to enter other occupations, retire, or leave the workforce for other reasons and the movement of experienced workers filling the openings, resulting in a net replacement number. Replacement openings, added to growth openings, are used to highlight future job opportunities, to help with career guidance, and to estimate future training needs for an occupation.

In order to estimate occupational replacement openings, replacement rates are calculated at a national level by the U.S. Bureau of Labor Statistics (BLS). The BLS methodology uses occupational employment data from the Current Population Survey (CPS), a household survey that collects demographic and employment information about individuals. BLS calculates an estimate of the net number of workers leaving an occupation who will need to be replaced by analyzing occupation-specific age cohort shifts. BLS analysts measure the net change in occupational employment for 13 different age cohorts over a five-year period (for a detailed methodology on replacements, please visit [www.bls.gov/emp/ep\\_replacements.htm](http://www.bls.gov/emp/ep_replacements.htm)).

Some things to keep in mind when using North Dakota replacement openings data:

- **Replacement rates are not specific to North Dakota, rather, national rates are applied to state-specific occupation projections data.**
- **Replacement rates are only available for occupations, therefore, industry-specific replacement openings cannot be calculated.**
- **Replacement rates are occupation-specific, not job-specific. The estimate of replacement openings does not count workers who change jobs but remain in the same occupation so it should not be interpreted as an indicator of turnover. In other words, if a waitress exits employment at a restaurant and gets hired as a waitress at a competing restaurant, she is not counted as a replacement opening.**
- **The number of new entrants needed in an occupation is underestimated because replacement openings are based on net changes and do not capture the gross flows into and out of an occupation. Even if growth and replacement openings perfectly measured the need for new entrants, training needs would still be underestimated because some people who complete training do not enter the occupation for which they qualify.**
- **Projected replacement openings assume that workers will continue to retire and otherwise exit an occupation at ages similar to those which have been observed in the recent past.**
- **Replacement rates capture the impact of demographic changes, not behavioral changes.**
- **If employment is projected to decline, the number of job openings resulting from growth is zero and replacement openings constitute the only source of employment opportunities. A projected decline in employment should not be subtracted from replacement openings to estimate employment opportunities. When employment declines, net separations increase both because it is more likely that individuals lose their jobs and because fewer are entering the occupation. Replacement openings already capture these effects by reducing net separations by declines in employment. They should not be further reduced by projected employment declines.**
- **For most occupations, openings due to replacements provide many more job opportunities than openings due to growth.**

## JOB GROWTH OUTLOOK

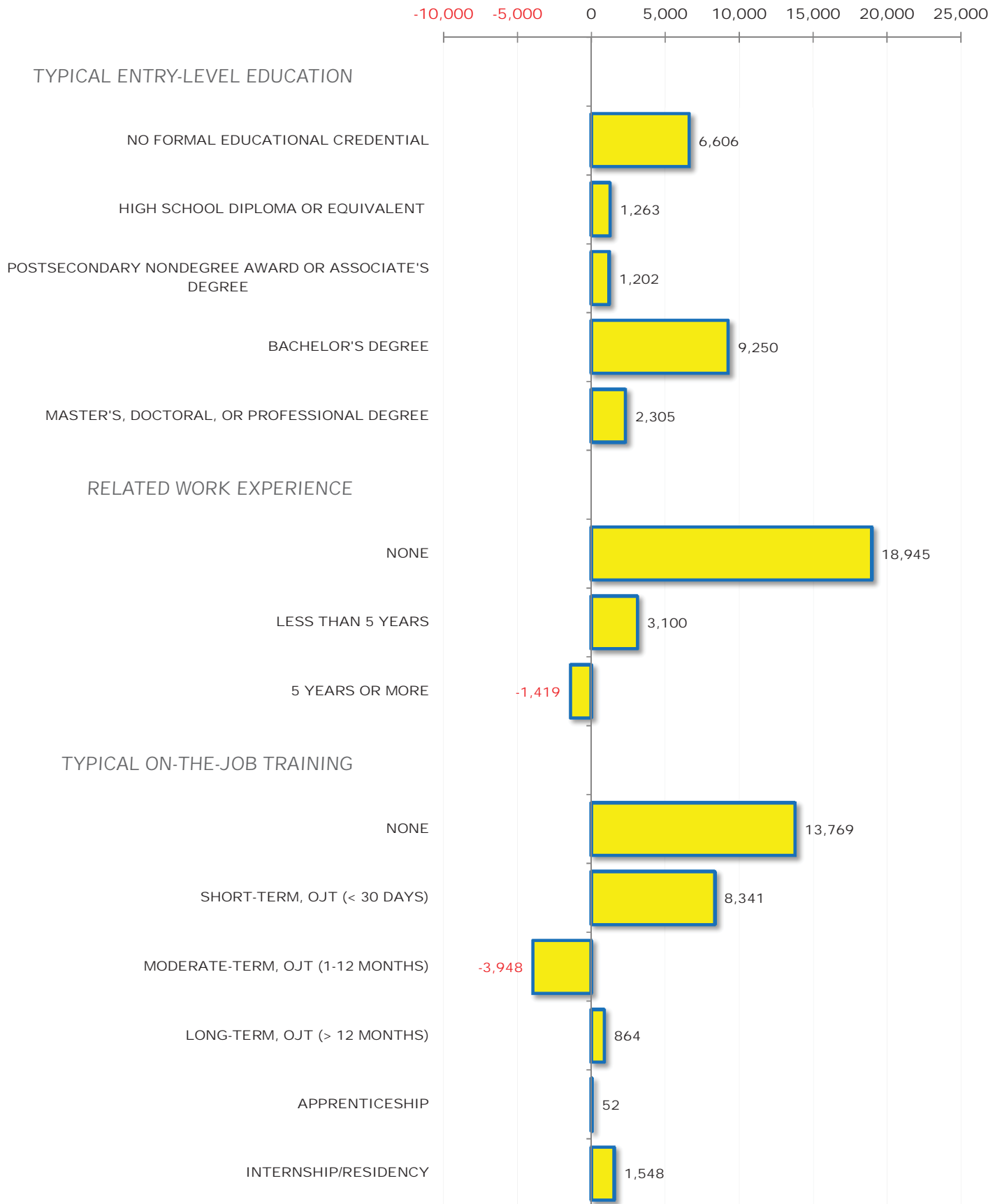
An occupation's job growth outlook is based on how rapidly new jobs will be created over the next ten years relative to the average ten-year historical growth rate for all occupations over the last 15 years. The average ten-year historical growth rate for all occupations is 15.7 percent. Keep in mind, this indicator is based on the percent change or growth rate of an occupation, not on the number of anticipated growth openings, so an occupation with a small employment base but a faster-than-average growth rate may generate substantially fewer growth openings than an occupation with a large employment base but a lower-than-average growth rate. Below are the job growth outlook descriptors and ranges:

- **Exceptional Growth:** Employment growth is projected to increase 50 percent or more
- **High Growth:** Employment growth is projected to increase between 20 to 49.9 percent
- **Avg to Near Avg Growth:** Employment growth is projected to increase between 10 to 19.9 percent
- **Below Average Growth:** Employment growth is projected to increase between 0.1 to 9.9 percent
- **Zero to Declining Growth:** Employment growth is projected to be zero or negative

## BRIGHT OUTLOOK OCCUPATIONS

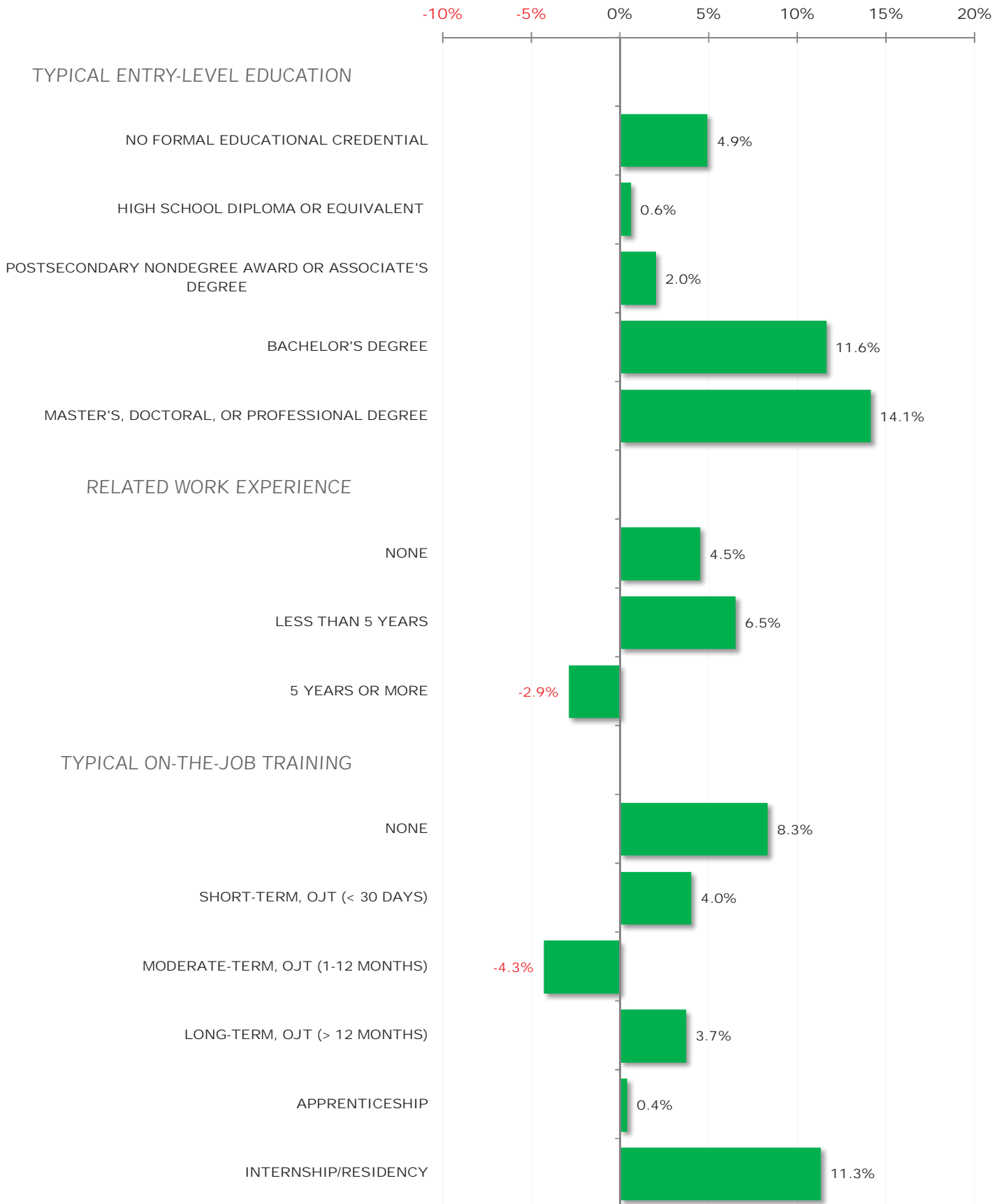
'Bright Outlook' occupations are those with a 2014 base year employment estimate of 100 or greater, and projected growth openings of at least 100 or greater or a projected growth rate of at least 20 percent or greater. Keep in mind that an occupation with a small employment base but a faster-than-average growth rate may generate substantially fewer growth openings than an occupation with a large employment base but a lower-than-average growth rate. 'Bright Outlook' occupations should not be the sole focus of a career exploration plan since potentially promising occupation choices may have just missed the cutoff. This designation does not constitute an endorsement, but instead highlights a group of diverse occupations with faster-than-average growth rates or a large number of growth openings. The 'Bright Outlook' designation does not take occupational wage levels into account, only projected employment growth or growth rates. Occupational codes ending with four zeros (XX-"0000") denote a major occupational group and are not eligible for the 'Bright Outlook' tag.

# PROJECTED NUMERIC GROWTH BY EDUCATION/TRAINING CLASSIFICATION

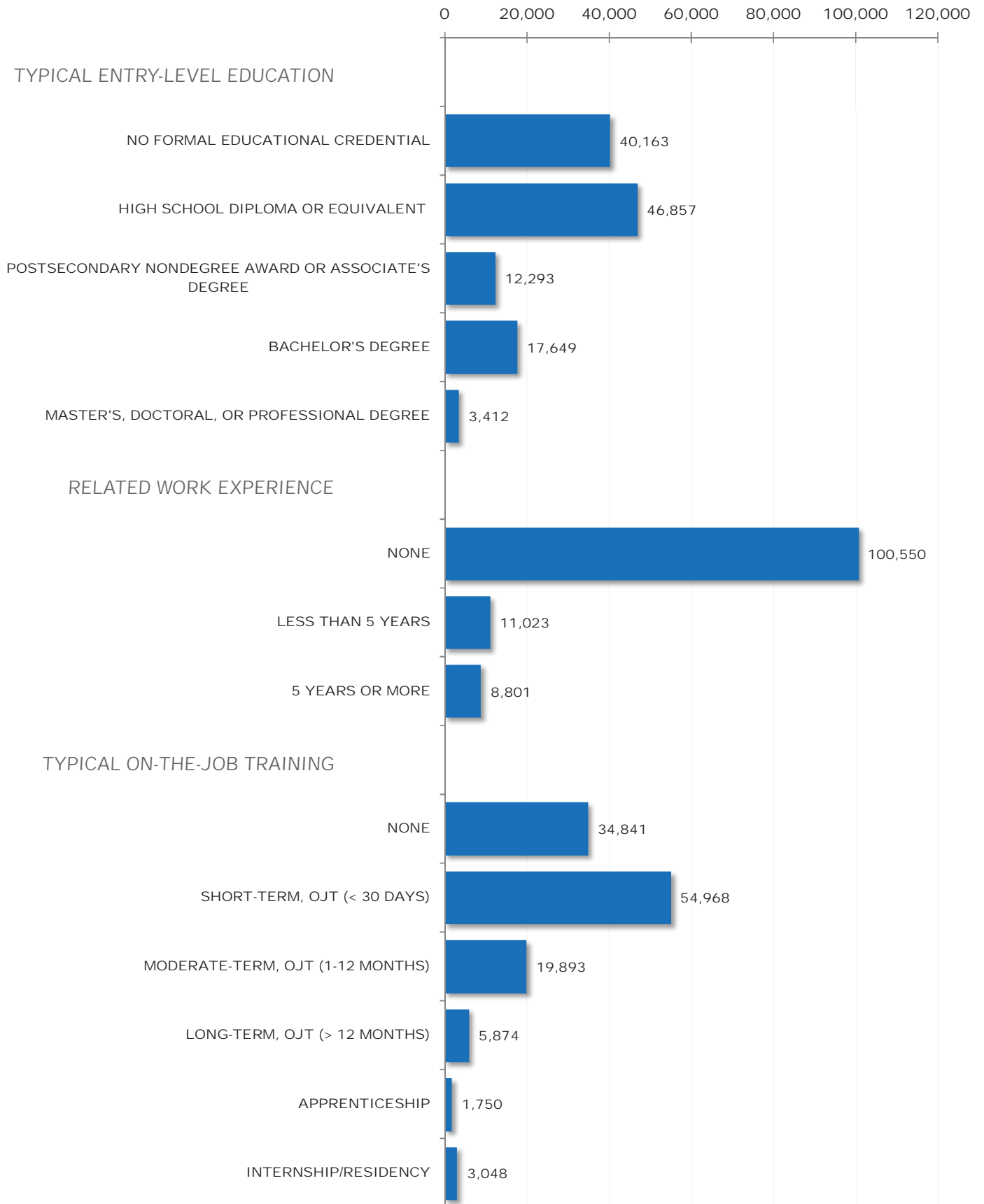




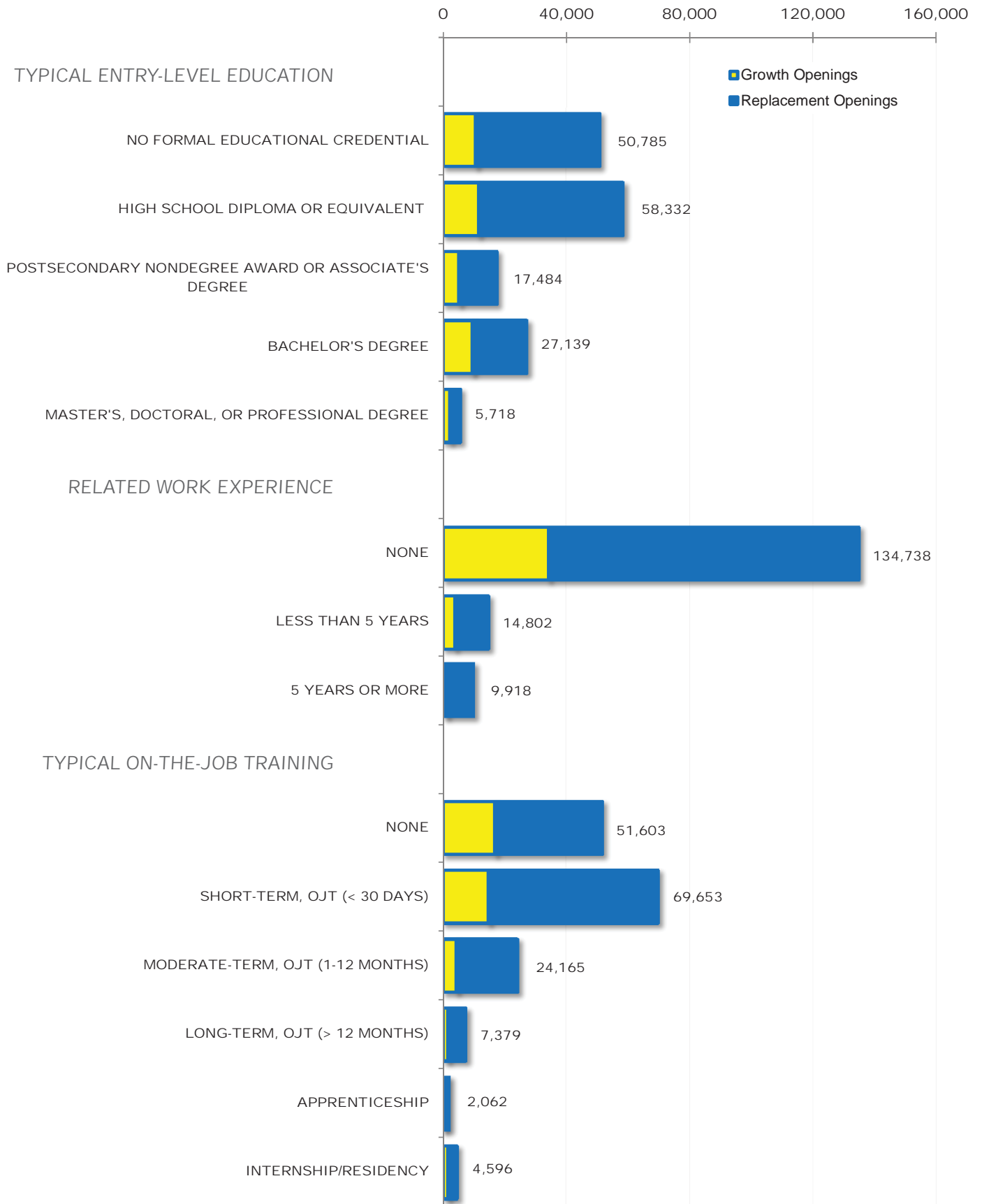
# PROJECTED PERCENT GROWTH BY EDUCATION/TRAINING CLASSIFICATION



# PROJECTED REPLACEMENT OPENINGS BY EDUCATION/TRAINING CLASSIFICATION

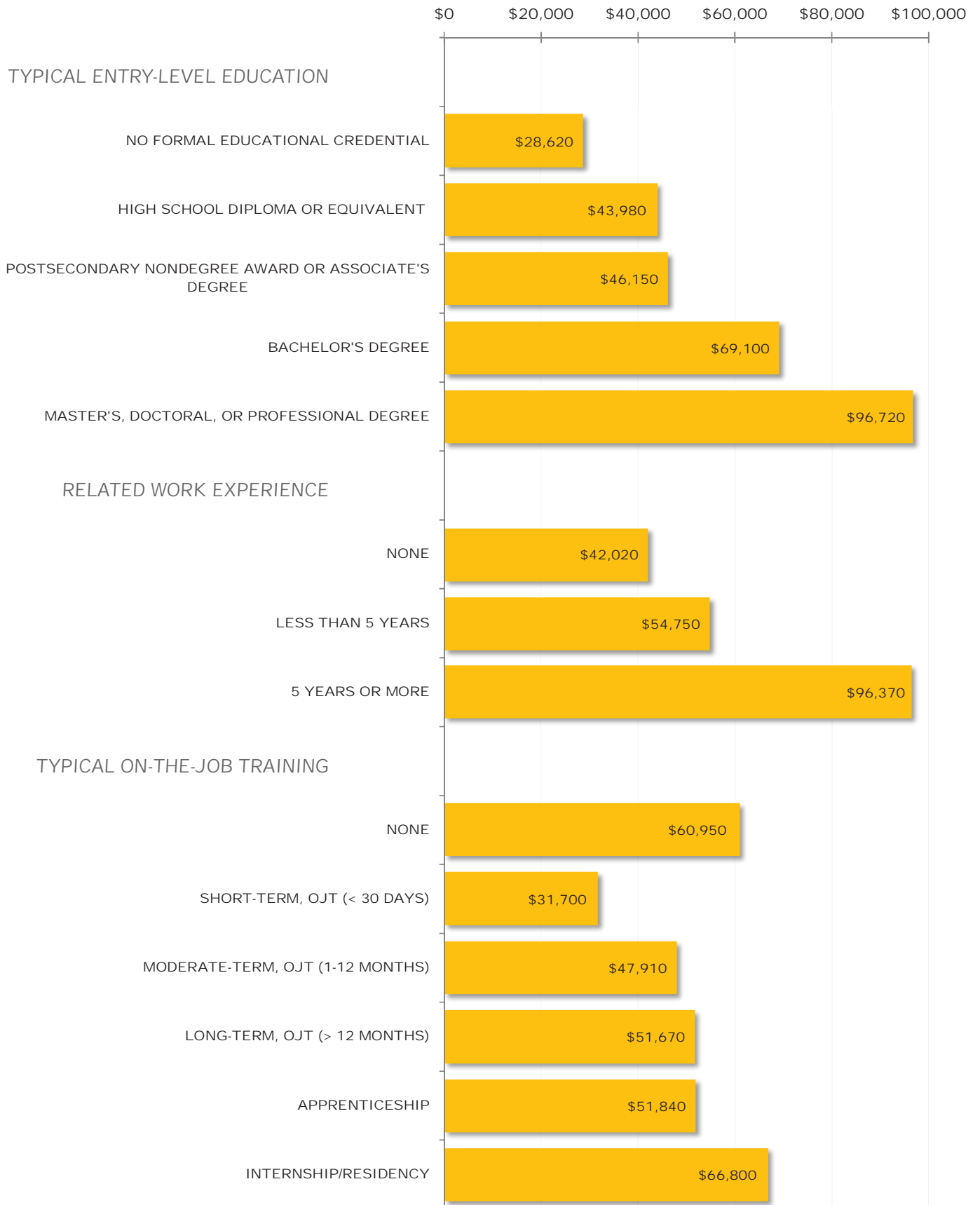


# PROJECTED TOTAL OPENINGS BY EDUCATION/TRAINING CLASSIFICATION



# AVERAGE 2015 WAGES BY EDUCATION/TRAINING CLASSIFICATION

AVERAGE STATEWIDE WAGES: \$50,696



# OCCUPATIONS RANKED BY TYPICAL ENTRY-LEVEL EDUCATION

No Formal Educational Credential		2014 Est Emp	2024 Proj Emp	Numeric Change	Percent Change	Growth Openings	Replacement Openings	Total Openings	Average 2015 Wages	Typical Entry-Level Edu.
1	Retail Salespersons	14,163	15,980	1,817	12.8	1,817	4,909	6,726	30,740	NC
2	Cashiers	11,307	11,478	171	1.5	171	4,811	4,982	22,150	NC
3	Waiters and Waitresses	7,616	8,316	700	9.2	700	3,665	4,365	21,060	NC
4	Combined Food Preparation and Serving Workers	7,211	8,496	1,285	17.8	1,285	2,330	3,615	21,710	NC
5	Laborers & Freight, Stock & Material Movers, Hand	9,190	9,033	-157	-1.7	0	2,735	2,735	32,190	NC
6	Janitors/Cleaners, Exc. Maids & Housekeeping Wkrs	7,686	8,790	1,104	14.4	1,104	1,527	2,631	28,730	NC
7	Stock Clerks and Order Fillers	5,184	5,538	354	6.8	354	1,645	1,999	28,740	NC
8	Personal Care Aides	4,665	6,126	1,461	31.3	1,461	377	1,838	30,450	NC
9	Bartenders	3,349	3,908	559	16.7	559	1,259	1,818	20,520	NC
10	Maids and Housekeeping Cleaners	5,695	5,773	78	1.4	78	1,358	1,436	23,540	NC
11	Construction Laborers	6,785	6,388	-397	-5.9	0	1,353	1,353	39,230	NC
12	Cooks, Restaurant	2,674	3,236	562	21.0	562	707	1,269	26,630	NC
13	Roustabouts, Oil and Gas	6,332	3,654	-2,678	-42.3	0	1,244	1,244	44,880	NC
14	Counter Attendants, Cafeteria, & Food Concession	1,527	1,693	166	10.9	166	918	1,084	23,690	NC
15	Food Preparation Workers	3,057	3,258	201	6.6	201	852	1,053	24,800	NC
16	Farmworkers & Laborers, Crop, Nursery & Greenhouse	3,889	3,806	-83	-2.1	0	1,036	1,036	26,670	NC
17	Host & Hostess, Restaurant, Lounge & Coffee Shop	1,061	1,187	126	11.9	126	753	879	19,200	NC
18	Landscaping and Groundskeeping Workers	2,753	3,085	332	12.1	332	496	828	27,650	NC
19	Dishwashers	1,525	1,568	43	2.8	43	659	702	19,850	NC
20	Home Health Aides	1,320	1,687	367	27.8	367	298	665	30,160	NC
21	Food Servers, Nonrestaurant	1,328	1,556	228	17.2	228	326	554	23,340	NC
22	Amusement and Recreation Attendants	1,066	1,169	103	9.7	103	446	549	20,960	NC
23	Cleaners of Vehicles and Equipment	1,569	1,445	-124	-7.9	0	547	547	N/A	NC
24	Helpers--Dining Room, Cafeteria, & Bartender	843	924	81	9.6	81	421	502	20,240	NC
25	Cooks, Institution and Cafeteria	1,171	1,352	181	15.5	181	310	491	27,800	NC

High School Diploma or Equivalent		2014 Est Emp	2024 Proj Emp	Numeric Change	Percent Change	Growth Openings	Replacement Openings	Total Openings	Average 2015 Wages	Typical Entry-Level Edu.
1	Farmers, Ranchers, and Other Agricultural Managers	26,605	24,932	-1,673	-6.3	0	4,533	4,533	74,970	HS
2	Customer Service Representatives	6,956	8,086	1,130	16.2	1,130	1,713	2,843	33,480	HS
3	Office Clerks, General	10,432	10,583	151	1.4	151	2,250	2,401	26,940	HS
4	Childcare Workers	4,870	5,617	747	15.3	747	1,437	2,184	20,550	HS
5	Teacher Assistants	5,019	5,586	567	11.3	567	1,203	1,770	30,220	HS
6	First-Line Supervisors of Retail Sales Workers	4,662	5,002	340	7.3	340	1,042	1,382	44,970	HS
7	Supervisors, Food Preparation & Serving Workers	2,935	3,410	475	16.2	475	872	1,347	33,520	HS
8	Maintenance and Repair Workers, General	3,960	4,107	147	3.7	147	1,038	1,185	41,170	HS
9	Secretaries, Except Legal, Medical, and Executive	7,607	7,880	273	3.6	273	802	1,075	36,400	HS
10	First-Line Supervisor, Office Admin. Support Wkrs	3,662	4,093	431	11.8	431	553	984	55,420	HS
11	Hotel, Motel, and Resort Desk Clerks	1,878	1,724	-154	-8.2	0	971	971	25,460	HS
12	Service Unit Operators, Oil, Gas, and Mining	2,785	1,714	-1,071	-38.5	0	952	952	54,790	HS
13	Sales Rep., Wholesale & Mfg, Exc. Tech. Products	4,147	4,069	-78	-1.9	0	853	853	68,670	HS
14	Team Assemblers	2,887	3,088	201	7.0	201	620	821	31,730	HS
15	Insurance Sales Agents	1,738	2,095	357	20.5	357	456	813	63,900	HS
16	Receptionists and Information Clerks	2,239	2,445	206	9.2	206	603	809	27,300	HS
17	Operating Engineers & Other Const. Equip. Oprs.	4,611	3,933	-678	-14.7	0	769	769	54,850	HS
18	Bookkeeping, Accounting, and Auditing Clerks	7,588	6,804	-784	-10.3	0	744	744	37,910	HS
19	Tellers	1,600	1,705	105	6.6	105	626	731	28,220	HS
20	Light Truck or Delivery Services Drivers	3,415	3,521	106	3.1	106	581	687	35,680	HS
21	Electricians	4,479	4,413	-66	-1.5	0	684	684	59,410	HS
22	Rotary Drill Operators, Oil and Gas	1,880	1,196	-684	-36.4	0	643	643	65,140	HS
23	Carpenters	3,256	3,472	216	6.6	216	374	590	39,850	HS
24	Police and Sheriff's Patrol Officers	1,314	1,463	149	11.3	149	433	582	51,610	HS
25	Industrial Machinery Mechanics	1,527	1,694	167	10.9	167	396	563	59,190	HS

**GROWTH OPENINGS**

Growth openings are the number of anticipated openings due to new job growth. If numeric change is negative, growth openings are zero.

**REPLACEMENT OPENINGS**

Replacement openings are the number of anticipated openings due to workers who permanently leave an occupation (i.e. retirement, death, etc.).

**TYPICAL ENTRY-LEVEL EDUCATION**

Typical entry-level education describes the education level most workers need to enter the occupation.

NC No formal educational credential    HS High school diploma or equivalent    PA Postsecondary nondegree award    AD Associate's degree    BD Bachelor's degree    MD Master's degree  
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**AVERAGE 2015 WAGES**

Occupational wage data originate from the 2015 Occupational Employment Statistics (OES) survey. Wage data exclude overtime pay and earnings from self-employed workers.

The summary tables are restricted to disclosable occupations with a 2014 base employment of 100 or greater.

## OCCUPATIONS RANKED BY TYPICAL ENTRY-LEVEL EDUCATION

	Postsecondary Nondegree Award or Associate's Degree									
	2014 Est Emp	2024 Proj Emp	Numeric Change	Percent Change	Growth Openings	Replacement Openings	Total Openings	Average 2015 Wages	Typical Entry-Level Edu.	
1 Heavy and Tractor-Trailer Truck Drivers	18,585	15,201	-3,384	-18.2	0	3,161	3,161	53,400	PA	
2 Nursing Assistants	7,163	8,647	1,484	20.7	1,484	1,618	3,102	29,520	PA	
3 Licensed Practical and Licensed Vocational Nurses	2,923	3,412	489	16.7	489	832	1,321	41,250	PA	
4 Welders, Cutters, Solderers, and Brazers	2,791	2,720	-71	-2.5	0	801	801	53,100	PA	
5 Hairdressers, Hairstylists, and Cosmetologists	2,031	2,200	169	8.3	169	523	692	29,650	PA	
6 Automotive Service Technicians and Mechanics	2,494	2,423	-71	-2.8	0	668	668	42,570	PA	
7 Emergency Medical Technicians and Paramedics	1,032	1,338	306	29.7	306	169	475	31,330	PA	
8 Computer User Support Specialists	1,396	1,655	259	18.6	259	180	439	46,820	AD	
9 Bus & Truck Mechanics & Diesel Engine Specialists	2,393	2,170	-223	-9.3	0	411	411	51,620	PA	
10 Medical Records and Health Information Technicians	901	1,108	207	23.0	207	202	409	38,550	PA	
11 Preschool Teachers, Except Special Education	718	848	130	18.1	130	210	340	37,960	AD	
12 Phlebotomists	589	775	186	31.6	186	123	309	27,300	PA	
13 Medical Assistants	668	831	163	24.4	163	139	302	33,240	PA	
14 Dental Assistants	674	803	129	19.1	129	167	296	42,000	PA	
15 Dental Hygienists	624	744	120	19.2	120	103	223	64,510	AD	
16 Civil Engineering Technicians	519	582	63	12.1	63	127	190	50,720	AD	
17 Wind Turbine Service Technicians	158	311	153	96.8	153	24	177	59,870	PA	
18 Welding, Soldering, & Brazing Mach. Setters, Oprs.	615	523	-92	-15.0	0	176	176	44,200	PA	
19 Computer Network Support Specialists	453	545	92	20.3	92	58	150	53,640	AD	
20 Radiologic Technologists	443	505	62	14.0	62	84	146	49,990	AD	
21 Heating, Air Conditioning, Refrigeration Mechanics	956	939	-17	-1.8	0	146	146	50,480	PA	
22 Web Developers	273	370	97	35.5	97	35	132	58,670	AD	
23 Respiratory Therapists	293	348	55	18.8	55	69	124	50,960	AD	
24 Medical and Clinical Laboratory Technicians	270	328	58	21.5	58	65	123	41,730	AD	
25 Firefighters	303	337	34	11.2	34	88	122	42,720	PA	

	Bachelor's Degree									
	2014 Est Emp	2024 Proj Emp	Numeric Change	Percent Change	Growth Openings	Replacement Openings	Total Openings	Average 2015 Wages	Typical Entry-Level Edu.	
1 Registered Nurses	8,392	10,442	2,050	24.4	2,050	1,980	4,030	58,890	BD	
2 General and Operations Managers	7,369	7,650	281	3.8	281	1,865	2,146	104,550	BD	
3 Accountants and Auditors	4,183	4,830	647	15.5	647	1,116	1,763	56,000	BD	
4 Elementary School Teachers, Exc. Special Edu.	4,283	4,730	447	10.4	447	947	1,394	47,110	BD	
5 Secondary School Teachers, Exc. Spcl & Career Edu.	2,481	2,743	262	10.6	262	588	850	48,410	BD	
6 Software Developers, Applications	1,273	1,642	369	29.0	369	182	551	72,720	BD	
7 Civil Engineers	1,105	1,283	178	16.1	178	326	504	74,260	BD	
8 Loan Officers	1,118	1,374	256	22.9	256	186	442	70,220	BD	
9 Chief Executives	2,539	2,446	-93	-3.7	0	432	432	158,580	BD	
10 Medical and Health Services Managers	843	1,023	180	21.4	180	213	393	91,540	BD	
11 Personal Financial Advisors	572	801	229	40.0	229	144	373	83,480	BD	
12 Financial Managers	973	1,115	142	14.6	142	230	372	110,890	BD	
13 Graduate Teaching Assistants	1,547	1,645	98	6.3	98	274	372	N/A	BD	
14 Human Resources Specialists	1,193	1,252	59	4.9	59	290	349	56,330	BD	
15 Medical and Clinical Laboratory Technologists	655	821	166	25.3	166	157	323	54,080	BD	
16 Middle School Teachers, Exc. Spcl & Career Edu.	943	1,042	99	10.5	99	209	308	52,920	BD	
17 Market Research Analysts and Marketing Specialists	777	970	193	24.8	193	93	286	55,310	BD	
18 Child, Family, and School Social Workers	712	824	112	15.7	112	172	284	50,040	BD	
19 Compliance Officers	1,161	1,262	101	8.7	101	163	264	59,000	BD	
20 Social and Community Service Managers	618	714	96	15.5	96	164	260	64,230	BD	
21 Kindergarten Teachers, Except Special Education	614	679	65	10.6	65	180	245	45,130	BD	
22 Training and Development Specialists	556	646	90	16.2	90	135	225	55,110	BD	
23 Management Analysts	660	791	131	19.8	131	91	222	69,750	BD	
24 Computer Systems Analysts	537	673	136	25.3	136	69	205	N/A	BD	
25 Mechanical Engineers	506	548	42	8.3	42	160	202	74,950	BD	

## GROWTH OPENINGS

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## TYPICAL ENTRY-LEVEL EDUCATION

Typical entry-level education describes the education level most workers need to enter the occupation.

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DD Doctoral or professional degree

## AVERAGE 2015 WAGES

Occupational wage data originate from the 2015 Occupational Employment Statistics (OES) survey. Wage data exclude overtime pay and earnings from self-employed workers.

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## OCCUPATIONS RANKED BY TYPICAL ENTRY-LEVEL EDUCATION

Master's, Doctoral, or Professional Degree	2014 Est Emp	2024 Proj Emp	Numeric Change	Percent Change	Growth Openings	Replacement Openings	Total Openings	Average 2015 Wages	Typical Entry-Level Edu.
1 Clergy	1,249	1,344	95	7.6	95	269	364	52,270	MD
2 Physical Therapists	552	725	173	31.3	173	148	321	73,310	MD
3 Lawyers	1,736	1,788	52	3.0	52	254	306	101,840	DD
4 Nurse Practitioners	445	623	178	40.0	178	105	283	92,750	MD
5 Speech-Language Pathologists	580	710	130	22.4	130	146	276	65,040	MD
6 Pharmacists	758	819	61	8.0	61	177	238	112,110	DD
7 Educational, School, and Vocational Counselors	701	782	81	11.6	81	147	228	55,250	MD
8 Occupational Therapists	410	531	121	29.5	121	79	200	65,110	MD
9 Education Administrators, Elementary & Secondary	499	551	52	10.4	52	145	197	85,740	MD
10 Education Administrators, Postsecondary	450	488	38	8.4	38	131	169	116,090	MD
11 Physician Assistants	296	387	91	30.7	91	66	157	111,940	MD
12 Healthcare Social Workers	362	428	66	18.2	66	87	153	47,920	MD
13 Family and General Practitioners	418	451	33	7.9	33	113	146	191,930	DD
14 Clinical, Counseling, and School Psychologists	313	391	78	24.9	78	67	145	79,910	DD
15 Anesthesiologists	266	328	62	23.3	62	72	134	283,200	DD
16 Librarians	468	496	28	6.0	28	88	116	46,730	MD
17 Chiropractors	310	366	56	18.1	56	56	112	69,310	DD
18 Optometrists	164	211	47	28.7	47	58	105	125,120	DD
19 Dentists, General	253	302	49	19.4	49	52	101	214,450	DD
20 Rehabilitation Counselors	231	273	42	18.2	42	48	90	43,060	MD
21 Biological Science Teachers, Postsecondary	246	282	36	14.6	36	44	80	114,480	DD
22 Marriage and Family Therapists	177	219	42	23.7	42	37	79	46,080	MD
23 Nurse Anesthetists	164	195	31	18.9	31	39	70	178,720	MD
24 Nursing Instructors and Teachers, Postsecondary	165	199	34	20.6	34	29	63	75,280	MD
25 Veterinarians	222	249	27	12.2	27	34	61	85,310	DD

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**TYPICAL ENTRY-LEVEL EDUCATION**

Typical entry-level education describes the education level most workers need to enter the occupation.

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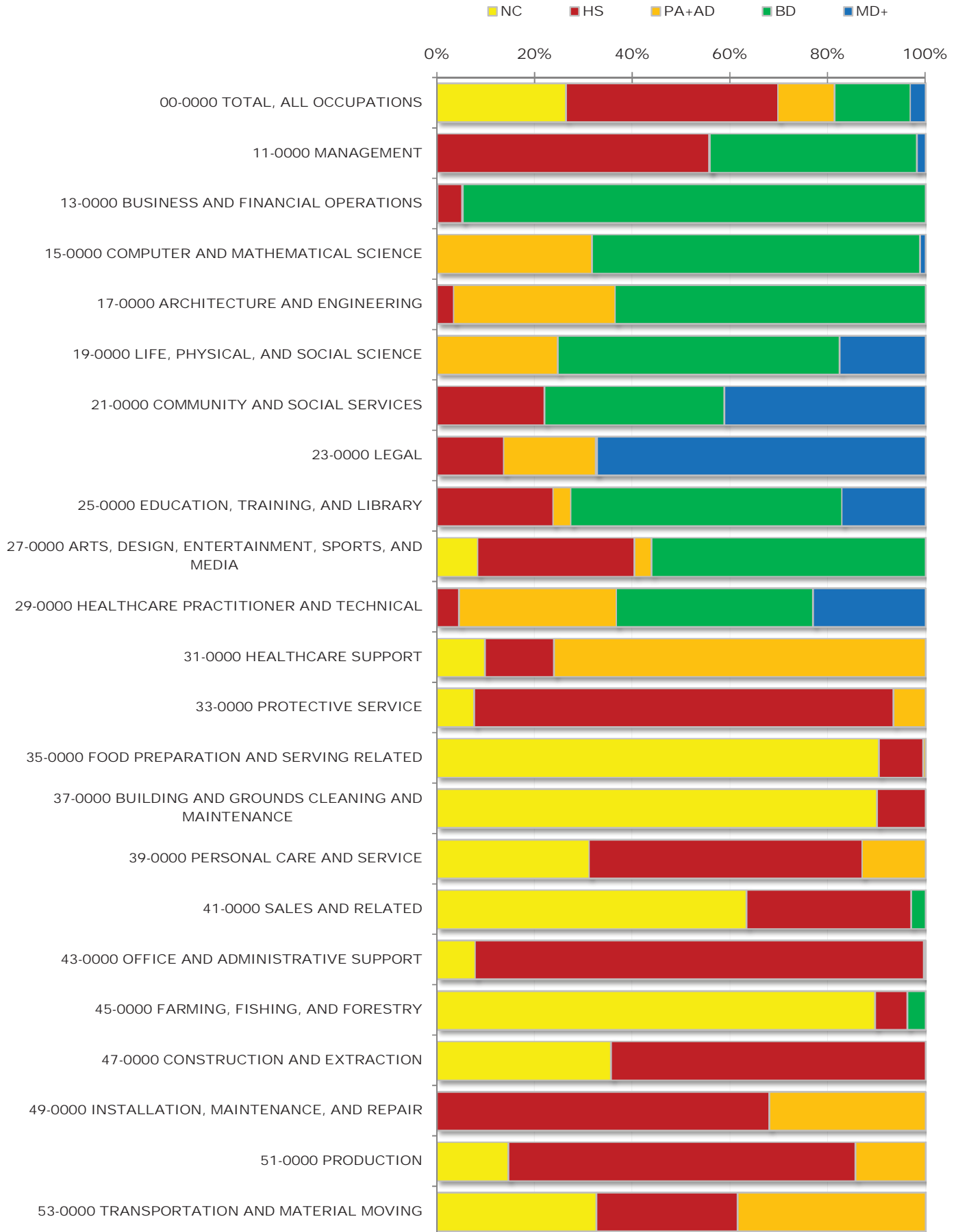
**DD** Doctoral or professional degree

**AVERAGE 2015 WAGES**

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# 2014 EMPLOYMENT DISTRIBUTION BY TYPICAL ENTRY-LEVEL EDUCATION





## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS

	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>00-0000 Total, All Occupations</b>							
<b>TYPICAL ENTRY-LEVEL EDUCATION</b>							
No formal educational credential [NC]	135,460	142,066	6,606	4.9	10,622	40,163	50,785
Percent Share of Occupation Group	26.4	26.6					
High school diploma or equivalent [HS]	222,690	223,953	1,263	0.6	11,475	46,857	58,332
Percent Share of Occupation Group	43.4	41.9					
Postsecondary nondegree award [PA]	49,354	49,177	-177	-0.4	3,784	10,134	13,918
Percent Share of Occupation Group	9.6	9.2					
Associate's degree [AD]	10,117	11,496	1,379	13.6	1,407	2,159	3,566
Percent Share of Occupation Group	2.0	2.2					
Bachelor's degree [BD]	79,656	88,906	9,250	11.6	9,490	17,649	27,139
Percent Share of Occupation Group	15.5	16.6					
Master's degree [MD]	8,005	9,408	1,403	17.5	1,404	1,782	3,186
Percent Share of Occupation Group	1.6	1.8					
Doctoral or professional degree [DD]	8,300	9,202	902	10.9	902	1,630	2,532
Percent Share of Occupation Group	1.6	1.7					
<b>RELATED WORK EXPERIENCE</b>							
None [NX]	417,066	436,011	18,945	4.5	34,188	100,550	134,738
Percent Share of Occupation Group	81.2	81.6					
5 years or less [Y1]	47,984	51,084	3,100	6.5	3,779	11,023	14,802
Percent Share of Occupation Group	9.3	9.6					
More than 5 years [Y5]	48,532	47,113	-1,419	-2.9	1,117	8,801	9,918
Percent Share of Occupation Group	9.4	8.8					
<b>TYPICAL ON-THE-JOB TRAINING</b>							
None [NT]	166,471	180,240	13,769	8.3	16,762	34,841	51,603
Percent Share of Occupation Group	32.4	33.7					
Short-term, OJT (< 30 days) [ST]	206,423	214,764	8,341	4.0	14,685	54,968	69,653
Percent Share of Occupation Group	40.2	40.2					
Moderate-term, OJT (1-12 months) [MT]	91,691	87,743	-3,948	-4.3	4,272	19,893	24,165
Percent Share of Occupation Group	17.9	16.4					
Long-term, OJT (> 12 months) [LT]	23,271	24,135	864	3.7	1,505	5,874	7,379
Percent Share of Occupation Group	4.5	4.5					
Apprenticeship [AP]	11,991	12,043	52	0.4	312	1,750	2,062
Percent Share of Occupation Group	2.3	2.3					
Internship/residency [IR]	13,735	15,283	1,548	11.3	1,548	3,048	4,596
Percent Share of Occupation Group	2.7	2.9					

## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS

	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>11-0000 Management Occupations</b>							
TYPICAL ENTRY-LEVEL EDUCATION							
No formal educational credential [NC]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
High school diploma or equivalent [HS]	28,371	26,833	-1,538	-5.4	154	4,882	5,036
Percent Share of Occupation Group	55.7	52.9					
Postsecondary nondegree award [PA]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Associate's degree [AD]	75	76	1	1.3	1	17	18
Percent Share of Occupation Group	0.1	0.1					
Bachelor's degree [BD]	21,538	22,784	1,246	5.8	1,340	4,922	6,262
Percent Share of Occupation Group	42.3	44.9					
Master's degree [MD]	949	1,039	90	9.5	90	276	366
Percent Share of Occupation Group	1.9	2.0					
Doctoral or professional degree [DD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
RELATED WORK EXPERIENCE							
None [NX]	845	844	-1	-0.1	0	118	118
Percent Share of Occupation Group	1.7	1.7					
5 years or less [Y1]	8,269	8,896	627	7.6	638	1,830	2,468
Percent Share of Occupation Group	16.2	17.5					
More than 5 years [Y5]	41,819	40,992	-827	-2.0	947	8,149	9,096
Percent Share of Occupation Group	82.1	80.8					
TYPICAL ON-THE-JOB TRAINING							
None [NT]	49,970	49,773	-197	-0.4	1,585	9,953	11,538
Percent Share of Occupation Group	98.1	98.1					
Short-term, OJT (< 30 days) [ST]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Moderate-term, OJT (1-12 months) [MT]	963	959	-4	-0.4	0	144	144
Percent Share of Occupation Group	1.9	1.9					
Long-term, OJT (> 12 months) [LT]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Apprenticeship [AP]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Internship/residency [IR]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					

## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS

	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>13-0000 Business and Financial Operations Occupations</b>							
<b>TYPICAL ENTRY-LEVEL EDUCATION</b>							
No formal educational credential [NC]	17	20	3	17.6	3	4	7
Percent Share of Occupation Group	0.1	0.1					
High school diploma or equivalent [HS]	883	1,055	172	19.5	172	219	391
Percent Share of Occupation Group	5.1	5.3					
Postsecondary nondegree award [PA]	18	21	3	16.7	3	4	7
Percent Share of Occupation Group	0.1	0.1					
Associate's degree [AD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Bachelor's degree [BD]	16,396	18,715	2,319	14.1	2,326	3,445	5,771
Percent Share of Occupation Group	94.7	94.5					
Master's degree [MD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Doctoral or professional degree [DD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
<b>RELATED WORK EXPERIENCE</b>							
None [NX]	15,867	18,126	2,259	14.2	2,264	3,389	5,653
Percent Share of Occupation Group	91.6	91.5					
5 years or less [Y1]	1,447	1,685	238	16.4	240	283	523
Percent Share of Occupation Group	8.4	8.5					
More than 5 years [Y5]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
<b>TYPICAL ON-THE-JOB TRAINING</b>							
None [NT]	11,526	13,085	1,559	13.5	1,566	2,465	4,031
Percent Share of Occupation Group	66.6	66.0					
Short-term, OJT (< 30 days) [ST]	17	20	3	17.6	3	4	7
Percent Share of Occupation Group	0.1	0.1					
Moderate-term, OJT (1-12 months) [MT]	3,254	3,719	465	14.3	465	550	1,015
Percent Share of Occupation Group	18.8	18.8					
Long-term, OJT (> 12 months) [LT]	2,517	2,987	470	18.7	470	653	1,123
Percent Share of Occupation Group	14.5	15.1					
Apprenticeship [AP]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Internship/residency [IR]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					

## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS

	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>15-0000 Computer and Mathematical Occupations</b>							
TYPICAL ENTRY-LEVEL EDUCATION							
No formal educational credential [NC]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
High school diploma or equivalent [HS]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Postsecondary nondegree award [PA]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Associate's degree [AD]	2,122	2,570	448	21.1	448	273	721
Percent Share of Occupation Group	31.7	31.7					
Bachelor's degree [BD]	4,492	5,421	929	20.7	939	678	1,617
Percent Share of Occupation Group	67.1	66.9					
Master's degree [MD]	81	112	31	38.3	31	14	45
Percent Share of Occupation Group	1.2	1.4					
Doctoral or professional degree [DD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
RELATED WORK EXPERIENCE							
None [NX]	6,257	7,565	1,308	20.9	1,318	895	2,213
Percent Share of Occupation Group	93.5	93.4					
5 years or less [Y1]	285	349	64	22.5	64	50	114
Percent Share of Occupation Group	4.3	4.3					
More than 5 years [Y5]	153	189	36	23.5	36	20	56
Percent Share of Occupation Group	2.3	2.3					
TYPICAL ON-THE-JOB TRAINING							
None [NT]	6,680	8,082	1,402	21.0	1,412	961	2,373
Percent Share of Occupation Group	99.8	99.7					
Short-term, OJT (< 30 days) [ST]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Moderate-term, OJT (1-12 months) [MT]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Long-term, OJT (> 12 months) [LT]	15	21	6	40.0	6	4	10
Percent Share of Occupation Group	0.2	0.3					
Apprenticeship [AP]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Internship/residency [IR]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					

## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS

	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>17-0000 Architecture and Engineering Occupations</b>							
TYPICAL ENTRY-LEVEL EDUCATION							
No formal educational credential [NC]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
High school diploma or equivalent [HS]	229	223	-6	-2.6	0	26	26
Percent Share of Occupation Group	3.4	3.1					
Postsecondary nondegree award [PA]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Associate's degree [AD]	2,217	2,354	137	6.2	141	471	612
Percent Share of Occupation Group	33.0	32.3					
Bachelor's degree [BD]	4,266	4,709	443	10.4	476	1,149	1,625
Percent Share of Occupation Group	63.6	64.6					
Master's degree [MD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Doctoral or professional degree [DD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
RELATED WORK EXPERIENCE							
None [NX]	6,310	6,867	557	8.8	600	1,521	2,121
Percent Share of Occupation Group	94.0	94.2					
5 years or less [Y1]	402	419	17	4.2	17	125	142
Percent Share of Occupation Group	6.0	5.8					
More than 5 years [Y5]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
TYPICAL ON-THE-JOB TRAINING							
None [NT]	6,148	6,689	541	8.8	578	1,565	2,143
Percent Share of Occupation Group	91.6	91.8					
Short-term, OJT (< 30 days) [ST]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Moderate-term, OJT (1-12 months) [MT]	229	223	-6	-2.6	0	26	26
Percent Share of Occupation Group	3.4	3.1					
Long-term, OJT (> 12 months) [LT]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Apprenticeship [AP]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Internship/residency [IR]	335	374	39	11.6	39	55	94
Percent Share of Occupation Group	5.0	5.1					

## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS

	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>19-0000 Life, Physical, and Social Science Occupations</b>							
<b>TYPICAL ENTRY-LEVEL EDUCATION</b>							
No formal educational credential [NC]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
High school diploma or equivalent [HS]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Postsecondary nondegree award [PA]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Associate's degree [AD]	942	1,017	75	8.0	75	358	433
Percent Share of Occupation Group	24.7	24.6					
Bachelor's degree [BD]	2,196	2,314	118	5.4	122	663	785
Percent Share of Occupation Group	57.6	55.9					
Master's degree [MD]	279	322	43	15.4	43	50	93
Percent Share of Occupation Group	7.3	7.8					
Doctoral or professional degree [DD]	393	486	93	23.7	93	87	180
Percent Share of Occupation Group	10.3	11.7					
<b>RELATED WORK EXPERIENCE</b>							
None [NX]	3,810	4,139	329	8.6	333	1,158	1,491
Percent Share of Occupation Group	100.0	100.0					
5 years or less [Y1]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
More than 5 years [Y5]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
<b>TYPICAL ON-THE-JOB TRAINING</b>							
None [NT]	3,041	3,237	196	6.4	200	948	1,148
Percent Share of Occupation Group	79.8	78.2					
Short-term, OJT (< 30 days) [ST]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Moderate-term, OJT (1-12 months) [MT]	400	444	44	11.0	44	131	175
Percent Share of Occupation Group	10.5	10.7					
Long-term, OJT (> 12 months) [LT]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Apprenticeship [AP]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Internship/residency [IR]	369	458	89	24.1	89	79	168
Percent Share of Occupation Group	9.7	11.1					

## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS

	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>21-0000 Community and Social Service Occupations</b>							
<b>TYPICAL ENTRY-LEVEL EDUCATION</b>							
No formal educational credential [NC]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
High school diploma or equivalent [HS]	1,559	1,910	351	22.5	351	305	656
Percent Share of Occupation Group	22.0	23.4					
Postsecondary nondegree award [PA]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Associate's degree [AD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Bachelor's degree [BD]	2,603	2,958	355	13.6	355	590	945
Percent Share of Occupation Group	36.7	36.3					
Master's degree [MD]	2,921	3,281	360	12.3	360	630	990
Percent Share of Occupation Group	41.2	40.3					
Doctoral or professional degree [DD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
<b>RELATED WORK EXPERIENCE</b>							
None [NX]	6,787	7,833	1,046	15.4	1,046	1,445	2,491
Percent Share of Occupation Group	95.8	96.1					
5 years or less [Y1]	296	316	20	6.8	20	80	100
Percent Share of Occupation Group	4.2	3.9					
More than 5 years [Y5]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
<b>TYPICAL ON-THE-JOB TRAINING</b>							
None [NT]	3,847	4,393	546	14.2	546	863	1,409
Percent Share of Occupation Group	54.3	53.9					
Short-term, OJT (< 30 days) [ST]	1,726	2,090	364	21.1	364	338	702
Percent Share of Occupation Group	24.4	25.6					
Moderate-term, OJT (1-12 months) [MT]	1,249	1,344	95	7.6	95	269	364
Percent Share of Occupation Group	17.6	16.5					
Long-term, OJT (> 12 months) [LT]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Apprenticeship [AP]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Internship/residency [IR]	261	322	61	23.4	61	55	116
Percent Share of Occupation Group	3.7	4.0					

## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS

	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>23-0000 Legal Occupations</b>							
TYPICAL ENTRY-LEVEL EDUCATION							
No formal educational credential [NC]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
High school diploma or equivalent [HS]	384	366	-18	-4.7	7	85	92
Percent Share of Occupation Group	13.7	12.7					
Postsecondary nondegree award [PA]	85	87	2	2.4	2	19	21
Percent Share of Occupation Group	3.0	3.0					
Associate's degree [AD]	443	468	25	5.6	25	97	122
Percent Share of Occupation Group	15.8	16.3					
Bachelor's degree [BD]	10	11	1	10.0	1	1	2
Percent Share of Occupation Group	0.4	0.4					
Master's degree [MD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Doctoral or professional degree [DD]	1,890	1,947	57	3.0	57	280	337
Percent Share of Occupation Group	67.2	67.6					
RELATED WORK EXPERIENCE							
None [NX]	2,688	2,749	61	2.3	86	464	550
Percent Share of Occupation Group	95.6	95.5					
5 years or less [Y1]	10	11	1	10.0	1	1	2
Percent Share of Occupation Group	0.4	0.4					
More than 5 years [Y5]	114	119	5	4.4	5	17	22
Percent Share of Occupation Group	4.1	4.1					
TYPICAL ON-THE-JOB TRAINING							
None [NT]	2,219	2,296	77	3.5	77	360	437
Percent Share of Occupation Group	78.9	79.7					
Short-term, OJT (< 30 days) [ST]	583	572	-11	-1.9	14	121	135
Percent Share of Occupation Group	20.7	19.9					
Moderate-term, OJT (1-12 months) [MT]	10	11	1	10.0	1	1	2
Percent Share of Occupation Group	0.4	0.4					
Long-term, OJT (> 12 months) [LT]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Apprenticeship [AP]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Internship/residency [IR]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					



## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS

	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>25-0000 Education, Training, and Library Occupations</b>							
<b>TYPICAL ENTRY-LEVEL EDUCATION</b>							
No formal educational credential [NC]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
High school diploma or equivalent [HS]	<b>5,677</b>	<b>6,422</b>	<b>745</b>	<b>13.1</b>	<b>745</b>	<b>1,327</b>	<b>2,072</b>
Percent Share of Occupation Group	23.8	24.3					
Postsecondary nondegree award [PA]	<b>144</b>	<b>157</b>	<b>13</b>	<b>9.0</b>	<b>13</b>	<b>69</b>	<b>82</b>
Percent Share of Occupation Group	0.6	0.6					
Associate's degree [AD]	<b>718</b>	<b>848</b>	<b>130</b>	<b>18.1</b>	<b>130</b>	<b>210</b>	<b>340</b>
Percent Share of Occupation Group	3.0	3.2					
Bachelor's degree [BD]	<b>13,225</b>	<b>14,468</b>	<b>1,243</b>	<b>9.4</b>	<b>1,243</b>	<b>2,811</b>	<b>4,054</b>
Percent Share of Occupation Group	55.4	54.8					
Master's degree [MD]	<b>1,180</b>	<b>1,293</b>	<b>113</b>	<b>9.6</b>	<b>114</b>	<b>199</b>	<b>313</b>
Percent Share of Occupation Group	4.9	4.9					
Doctoral or professional degree [DD]	<b>2,924</b>	<b>3,223</b>	<b>299</b>	<b>10.2</b>	<b>299</b>	<b>518</b>	<b>817</b>
Percent Share of Occupation Group	12.3	12.2					
<b>RELATED WORK EXPERIENCE</b>							
None [NX]	<b>21,676</b>	<b>23,891</b>	<b>2,215</b>	<b>10.2</b>	<b>2,216</b>	<b>4,740</b>	<b>6,956</b>
Percent Share of Occupation Group	90.8	90.5					
5 years or less [Y1]	<b>1,901</b>	<b>2,201</b>	<b>300</b>	<b>15.8</b>	<b>300</b>	<b>366</b>	<b>666</b>
Percent Share of Occupation Group	8.0	8.3					
More than 5 years [Y5]	<b>291</b>	<b>319</b>	<b>28</b>	<b>9.6</b>	<b>28</b>	<b>28</b>	<b>56</b>
Percent Share of Occupation Group	1.2	1.2					
<b>TYPICAL ON-THE-JOB TRAINING</b>							
None [NT]	<b>12,698</b>	<b>14,135</b>	<b>1,437</b>	<b>11.3</b>	<b>1,438</b>	<b>2,655</b>	<b>4,093</b>
Percent Share of Occupation Group	53.2	53.5					
Short-term, OJT (< 30 days) [ST]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Moderate-term, OJT (1-12 months) [MT]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Long-term, OJT (> 12 months) [LT]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Apprenticeship [AP]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Internship/residency [IR]	<b>11,170</b>	<b>12,276</b>	<b>1,106</b>	<b>9.9</b>	<b>1,106</b>	<b>2,479</b>	<b>3,585</b>
Percent Share of Occupation Group	46.8	46.5					

## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS

	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>27-0000 Arts, Design, Entertainment, Sports, and Media Occupations</b>							
<b>TYPICAL ENTRY-LEVEL EDUCATION</b>							
No formal educational credential [NC]	476	500	24	5.0	33	134	167
Percent Share of Occupation Group	8.4	8.3					
High school diploma or equivalent [HS]	1,823	1,924	101	5.5	155	521	676
Percent Share of Occupation Group	32.0	32.0					
Postsecondary nondegree award [PA]	90	113	23	25.6	23	18	41
Percent Share of Occupation Group	1.6	1.9					
Associate's degree [AD]	111	104	-7	-6.3	4	22	26
Percent Share of Occupation Group	2.0	1.7					
Bachelor's degree [BD]	3,191	3,371	180	5.6	233	709	942
Percent Share of Occupation Group	56.1	56.1					
Master's degree [MD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Doctoral or professional degree [DD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
<b>RELATED WORK EXPERIENCE</b>							
None [NX]	4,273	4,485	212	5.0	307	954	1,261
Percent Share of Occupation Group	75.1	74.6					
5 years or less [Y1]	1,326	1,430	104	7.8	136	430	566
Percent Share of Occupation Group	23.3	23.8					
More than 5 years [Y5]	92	97	5	5.4	5	20	25
Percent Share of Occupation Group	1.6	1.6					
<b>TYPICAL ON-THE-JOB TRAINING</b>							
None [NT]	3,228	3,400	172	5.3	225	815	1,040
Percent Share of Occupation Group	56.7	56.6					
Short-term, OJT (< 30 days) [ST]	781	851	70	9.0	135	184	319
Percent Share of Occupation Group	13.7	14.2					
Moderate-term, OJT (1-12 months) [MT]	1,016	1,066	50	4.9	50	223	273
Percent Share of Occupation Group	17.9	17.7					
Long-term, OJT (> 12 months) [LT]	666	695	29	4.4	38	182	220
Percent Share of Occupation Group	11.7	11.6					
Apprenticeship [AP]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Internship/residency [IR]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					

## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS

	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>29-0000 Healthcare Practitioners and Technical Occupations</b>							
<b>TYPICAL ENTRY-LEVEL EDUCATION</b>							
No formal educational credential [NC]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
High school diploma or equivalent [HS]	1,115	1,301	186	16.7	186	174	360
Percent Share of Occupation Group	4.5	4.3					
Postsecondary nondegree award [PA]	5,496	6,658	1,162	21.1	1,162	1,265	2,427
Percent Share of Occupation Group	22.3	22.2					
Associate's degree [AD]	2,455	2,933	478	19.5	478	434	912
Percent Share of Occupation Group	9.9	9.8					
Bachelor's degree [BD]	9,938	12,219	2,281	23.0	2,310	2,287	4,597
Percent Share of Occupation Group	40.2	40.7					
Master's degree [MD]	2,595	3,361	766	29.5	766	613	1,379
Percent Share of Occupation Group	10.5	11.2					
Doctoral or professional degree [DD]	3,093	3,546	453	14.6	453	745	1,198
Percent Share of Occupation Group	12.5	11.8					
<b>RELATED WORK EXPERIENCE</b>							
None [NX]	24,579	29,885	5,306	21.6	5,335	5,499	10,834
Percent Share of Occupation Group	99.5	99.6					
5 years or less [Y1]	113	133	20	17.7	20	19	39
Percent Share of Occupation Group	0.5	0.4					
More than 5 years [Y5]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
<b>TYPICAL ON-THE-JOB TRAINING</b>							
None [NT]	21,953	26,833	4,880	22.2	4,909	4,962	9,871
Percent Share of Occupation Group	88.9	89.4					
Short-term, OJT (< 30 days) [ST]	24	31	7	29.2	7	2	9
Percent Share of Occupation Group	0.1	0.1					
Moderate-term, OJT (1-12 months) [MT]	804	902	98	12.2	98	91	189
Percent Share of Occupation Group	3.3	3.0					
Long-term, OJT (> 12 months) [LT]	311	399	88	28.3	88	83	171
Percent Share of Occupation Group	1.3	1.3					
Apprenticeship [AP]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Internship/residency [IR]	1,600	1,853	253	15.8	253	380	633
Percent Share of Occupation Group	6.5	6.2					

## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS

	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>31-0000 Healthcare Support Occupations</b>							
<b>TYPICAL ENTRY-LEVEL EDUCATION</b>							
No formal educational credential [NC]	<b>1,320</b>	<b>1,687</b>	<b>367</b>	<b>27.8</b>	<b>367</b>	<b>298</b>	<b>665</b>
Percent Share of Occupation Group	9.9	10.5					
High school diploma or equivalent [HS]	<b>1,885</b>	<b>2,151</b>	<b>266</b>	<b>14.1</b>	<b>266</b>	<b>414</b>	<b>680</b>
Percent Share of Occupation Group	14.1	13.4					
Postsecondary nondegree award [PA]	<b>9,974</b>	<b>12,009</b>	<b>2,035</b>	<b>20.4</b>	<b>2,035</b>	<b>2,179</b>	<b>4,214</b>
Percent Share of Occupation Group	74.5	74.5					
Associate's degree [AD]	<b>200</b>	<b>263</b>	<b>63</b>	<b>31.5</b>	<b>63</b>	<b>58</b>	<b>121</b>
Percent Share of Occupation Group	1.5	1.6					
Bachelor's degree [BD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Master's degree [MD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Doctoral or professional degree [DD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
<b>RELATED WORK EXPERIENCE</b>							
None [NX]	<b>13,379</b>	<b>16,110</b>	<b>2,731</b>	<b>20.4</b>	<b>2,731</b>	<b>2,949</b>	<b>5,680</b>
Percent Share of Occupation Group	100.0	100.0					
5 years or less [Y1]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
More than 5 years [Y5]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
<b>TYPICAL ON-THE-JOB TRAINING</b>							
None [NT]	<b>10,682</b>	<b>12,848</b>	<b>2,166</b>	<b>20.3</b>	<b>2,166</b>	<b>2,343</b>	<b>4,509</b>
Percent Share of Occupation Group	79.8	79.8					
Short-term, OJT (< 30 days) [ST]	<b>2,503</b>	<b>3,022</b>	<b>519</b>	<b>20.7</b>	<b>519</b>	<b>566</b>	<b>1,085</b>
Percent Share of Occupation Group	18.7	18.8					
Moderate-term, OJT (1-12 months) [MT]	<b>194</b>	<b>240</b>	<b>46</b>	<b>23.7</b>	<b>46</b>	<b>40</b>	<b>86</b>
Percent Share of Occupation Group	1.5	1.5					
Long-term, OJT (> 12 months) [LT]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Apprenticeship [AP]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Internship/residency [IR]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					

## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS

	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>33-0000 Protective Service Occupations</b>							
TYPICAL ENTRY-LEVEL EDUCATION							
No formal educational credential [NC]	518	547	29	5.6	31	73	104
Percent Share of Occupation Group	7.7	7.4					
High school diploma or equivalent [HS]	5,772	6,361	589	10.2	598	1,375	1,973
Percent Share of Occupation Group	85.6	85.9					
Postsecondary nondegree award [PA]	450	500	50	11.1	50	155	205
Percent Share of Occupation Group	6.7	6.7					
Associate's degree [AD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Bachelor's degree [BD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Master's degree [MD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Doctoral or professional degree [DD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
RELATED WORK EXPERIENCE							
None [NX]	5,609	6,165	556	9.9	567	1,259	1,826
Percent Share of Occupation Group	83.2	83.2					
5 years or less [Y1]	1,114	1,224	110	9.9	110	339	449
Percent Share of Occupation Group	16.5	16.5					
More than 5 years [Y5]	17	19	2	11.8	2	5	7
Percent Share of Occupation Group	0.3	0.3					
TYPICAL ON-THE-JOB TRAINING							
None [NT]	159	177	18	11.3	18	41	59
Percent Share of Occupation Group	2.4	2.4					
Short-term, OJT (< 30 days) [ST]	2,743	2,992	249	9.1	260	393	653
Percent Share of Occupation Group	40.7	40.4					
Moderate-term, OJT (1-12 months) [MT]	3,535	3,902	367	10.4	367	1,081	1,448
Percent Share of Occupation Group	52.4	52.7					
Long-term, OJT (> 12 months) [LT]	303	337	34	11.2	34	88	122
Percent Share of Occupation Group	4.5	4.5					
Apprenticeship [AP]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Internship/residency [IR]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					

## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS

	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>35-0000 Food Preparation and Serving Related Occupations</b>							
<b>TYPICAL ENTRY-LEVEL EDUCATION</b>							
No formal educational credential [NC]	<b>33,092</b>	<b>37,163</b>	<b>4,071</b>	<b>12.3</b>	<b>4,155</b>	<b>12,696</b>	<b>16,851</b>
Percent Share of Occupation Group	90.4	90.2					
High school diploma or equivalent [HS]	<b>3,323</b>	<b>3,844</b>	<b>521</b>	<b>15.7</b>	<b>521</b>	<b>930</b>	<b>1,451</b>
Percent Share of Occupation Group	9.1	9.3					
Postsecondary nondegree award [PA]	<b>193</b>	<b>190</b>	<b>-3</b>	<b>-1.6</b>	<b>0</b>	<b>51</b>	<b>51</b>
Percent Share of Occupation Group	0.5	0.5					
Associate's degree [AD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Bachelor's degree [BD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Master's degree [MD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Doctoral or professional degree [DD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
<b>RELATED WORK EXPERIENCE</b>							
None [NX]	<b>30,418</b>	<b>33,927</b>	<b>3,509</b>	<b>11.5</b>	<b>3,593</b>	<b>11,989</b>	<b>15,582</b>
Percent Share of Occupation Group	83.1	82.4					
5 years or less [Y1]	<b>5,802</b>	<b>6,836</b>	<b>1,034</b>	<b>17.8</b>	<b>1,037</b>	<b>1,630</b>	<b>2,667</b>
Percent Share of Occupation Group	15.8	16.6					
More than 5 years [Y5]	<b>388</b>	<b>434</b>	<b>46</b>	<b>11.9</b>	<b>46</b>	<b>58</b>	<b>104</b>
Percent Share of Occupation Group	1.1	1.1					
<b>TYPICAL ON-THE-JOB TRAINING</b>							
None [NT]	<b>4,577</b>	<b>5,221</b>	<b>644</b>	<b>14.1</b>	<b>647</b>	<b>1,734</b>	<b>2,381</b>
Percent Share of Occupation Group	12.5	12.7					
Short-term, OJT (< 30 days) [ST]	<b>29,326</b>	<b>32,704</b>	<b>3,378</b>	<b>11.5</b>	<b>3,462</b>	<b>11,228</b>	<b>14,690</b>
Percent Share of Occupation Group	80.1	79.4					
Moderate-term, OJT (1-12 months) [MT]	<b>2,705</b>	<b>3,272</b>	<b>567</b>	<b>21.0</b>	<b>567</b>	<b>715</b>	<b>1,282</b>
Percent Share of Occupation Group	7.4	7.9					
Long-term, OJT (> 12 months) [LT]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Apprenticeship [AP]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Internship/residency [IR]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					

## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS

	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>37-0000 Building and Grounds Cleaning and Maintenance Occupations</b>							
TYPICAL ENTRY-LEVEL EDUCATION							
No formal educational credential [NC]	<b>16,186</b>	<b>17,704</b>	<b>1,518</b>	<b>9.4</b>	<b>1,518</b>	<b>3,391</b>	<b>4,909</b>
Percent Share of Occupation Group	90.0	90.0					
High school diploma or equivalent [HS]	<b>1,806</b>	<b>1,965</b>	<b>159</b>	<b>8.8</b>	<b>159</b>	<b>300</b>	<b>459</b>
Percent Share of Occupation Group	10.0	10.0					
Postsecondary nondegree award [PA]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Associate's degree [AD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Bachelor's degree [BD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Master's degree [MD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Doctoral or professional degree [DD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
RELATED WORK EXPERIENCE							
None [NX]	<b>16,542</b>	<b>18,103</b>	<b>1,561</b>	<b>9.4</b>	<b>1,561</b>	<b>3,458</b>	<b>5,019</b>
Percent Share of Occupation Group	91.9	92.0					
5 years or less [Y1]	<b>1,450</b>	<b>1,566</b>	<b>116</b>	<b>8.0</b>	<b>116</b>	<b>233</b>	<b>349</b>
Percent Share of Occupation Group	8.1	8.0					
More than 5 years [Y5]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
TYPICAL ON-THE-JOB TRAINING							
None [NT]	<b>1,450</b>	<b>1,566</b>	<b>116</b>	<b>8.0</b>	<b>116</b>	<b>233</b>	<b>349</b>
Percent Share of Occupation Group	8.1	8.0					
Short-term, OJT (< 30 days) [ST]	<b>16,238</b>	<b>17,759</b>	<b>1,521</b>	<b>9.4</b>	<b>1,521</b>	<b>3,400</b>	<b>4,921</b>
Percent Share of Occupation Group	90.3	90.3					
Moderate-term, OJT (1-12 months) [MT]	<b>304</b>	<b>344</b>	<b>40</b>	<b>13.2</b>	<b>40</b>	<b>58</b>	<b>98</b>
Percent Share of Occupation Group	1.7	1.7					
Long-term, OJT (> 12 months) [LT]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Apprenticeship [AP]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Internship/residency [IR]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					

## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS

	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>39-0000 Personal Care and Service Occupations</b>							
TYPICAL ENTRY-LEVEL EDUCATION							
No formal educational credential [NC]	<b>6,194</b>	<b>7,792</b>	<b>1,598</b>	<b>25.8</b>	<b>1,598</b>	<b>1,110</b>	<b>2,708</b>
Percent Share of Occupation Group	31.1	33.5					
High school diploma or equivalent [HS]	<b>11,116</b>	<b>12,669</b>	<b>1,553</b>	<b>14.0</b>	<b>1,562</b>	<b>2,949</b>	<b>4,511</b>
Percent Share of Occupation Group	55.8	54.4					
Postsecondary nondegree award [PA]	<b>2,524</b>	<b>2,737</b>	<b>213</b>	<b>8.4</b>	<b>214</b>	<b>581</b>	<b>795</b>
Percent Share of Occupation Group	12.7	11.8					
Associate's degree [AD]	<b>70</b>	<b>74</b>	<b>4</b>	<b>5.7</b>	<b>4</b>	<b>15</b>	<b>19</b>
Percent Share of Occupation Group	0.4	0.3					
Bachelor's degree [BD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Master's degree [MD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Doctoral or professional degree [DD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
RELATED WORK EXPERIENCE							
None [NX]	<b>18,815</b>	<b>22,029</b>	<b>3,214</b>	<b>17.1</b>	<b>3,217</b>	<b>4,414</b>	<b>7,631</b>
Percent Share of Occupation Group	94.5	94.7					
5 years or less [Y1]	<b>1,089</b>	<b>1,243</b>	<b>154</b>	<b>14.1</b>	<b>161</b>	<b>241</b>	<b>402</b>
Percent Share of Occupation Group	5.5	5.3					
More than 5 years [Y5]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
TYPICAL ON-THE-JOB TRAINING							
None [NT]	<b>3,608</b>	<b>3,976</b>	<b>368</b>	<b>10.2</b>	<b>375</b>	<b>821</b>	<b>1,196</b>
Percent Share of Occupation Group	18.1	17.1					
Short-term, OJT (< 30 days) [ST]	<b>15,860</b>	<b>18,830</b>	<b>2,970</b>	<b>18.7</b>	<b>2,973</b>	<b>3,679</b>	<b>6,652</b>
Percent Share of Occupation Group	79.7	80.9					
Moderate-term, OJT (1-12 months) [MT]	<b>366</b>	<b>392</b>	<b>26</b>	<b>7.1</b>	<b>26</b>	<b>140</b>	<b>166</b>
Percent Share of Occupation Group	1.8	1.7					
Long-term, OJT (> 12 months) [LT]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Apprenticeship [AP]	<b>70</b>	<b>74</b>	<b>4</b>	<b>5.7</b>	<b>4</b>	<b>15</b>	<b>19</b>
Percent Share of Occupation Group	0.4	0.3					
Internship/residency [IR]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					



## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS

	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>41-0000 Sales and Related Occupations</b>							
<b>TYPICAL ENTRY-LEVEL EDUCATION</b>							
No formal educational credential [NC]	<b>28,520</b>	<b>30,364</b>	<b>1,844</b>	<b>6.5</b>	<b>1,988</b>	<b>10,396</b>	<b>12,384</b>
Percent Share of Occupation Group	63.3	63.6					
High school diploma or equivalent [HS]	<b>15,166</b>	<b>15,878</b>	<b>712</b>	<b>4.7</b>	<b>875</b>	<b>3,152</b>	<b>4,027</b>
Percent Share of Occupation Group	33.7	33.3					
Postsecondary nondegree award [PA]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Associate's degree [AD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Bachelor's degree [BD]	<b>1,367</b>	<b>1,484</b>	<b>117</b>	<b>8.6</b>	<b>119</b>	<b>270</b>	<b>389</b>
Percent Share of Occupation Group	3.0	3.1					
Master's degree [MD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Doctoral or professional degree [DD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
<b>RELATED WORK EXPERIENCE</b>							
None [NX]	<b>39,299</b>	<b>41,643</b>	<b>2,344</b>	<b>6.0</b>	<b>2,639</b>	<b>12,656</b>	<b>15,295</b>
Percent Share of Occupation Group	87.2	87.3					
5 years or less [Y1]	<b>5,754</b>	<b>6,083</b>	<b>329</b>	<b>5.7</b>	<b>343</b>	<b>1,162</b>	<b>1,505</b>
Percent Share of Occupation Group	12.8	12.7					
More than 5 years [Y5]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
<b>TYPICAL ON-THE-JOB TRAINING</b>							
None [NT]	<b>5,957</b>	<b>6,317</b>	<b>360</b>	<b>6.0</b>	<b>374</b>	<b>1,190</b>	<b>1,564</b>
Percent Share of Occupation Group	13.2	13.2					
Short-term, OJT (< 30 days) [ST]	<b>26,976</b>	<b>28,902</b>	<b>1,926</b>	<b>7.1</b>	<b>1,992</b>	<b>10,086</b>	<b>12,078</b>
Percent Share of Occupation Group	59.9	60.6					
Moderate-term, OJT (1-12 months) [MT]	<b>12,120</b>	<b>12,507</b>	<b>387</b>	<b>3.2</b>	<b>616</b>	<b>2,542</b>	<b>3,158</b>
Percent Share of Occupation Group	26.9	26.2					
Long-term, OJT (> 12 months) [LT]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Apprenticeship [AP]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Internship/residency [IR]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					

## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS

	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>43-0000 Office and Administrative Support Occupations</b>							
<b>TYPICAL ENTRY-LEVEL EDUCATION</b>							
No formal educational credential [NC]	5,184	5,538	354	6.8	354	1,645	1,999
Percent Share of Occupation Group	7.9	8.1					
High school diploma or equivalent [HS]	60,560	62,217	1,657	2.7	3,216	11,832	15,048
Percent Share of Occupation Group	91.8	91.5					
Postsecondary nondegree award [PA]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Associate's degree [AD]	105	93	-12	-11.4	0	28	28
Percent Share of Occupation Group	0.2	0.1					
Bachelor's degree [BD]	156	148	-8	-5.1	0	54	54
Percent Share of Occupation Group	0.2	0.2					
Master's degree [MD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Doctoral or professional degree [DD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
<b>RELATED WORK EXPERIENCE</b>							
None [NX]	59,959	61,593	1,634	2.7	3,139	12,755	15,894
Percent Share of Occupation Group	90.8	90.6					
5 years or less [Y1]	6,046	6,403	357	5.9	431	804	1,235
Percent Share of Occupation Group	9.2	9.4					
More than 5 years [Y5]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
<b>TYPICAL ON-THE-JOB TRAINING</b>							
None [NT]	6,202	6,551	349	5.6	431	858	1,289
Percent Share of Occupation Group	9.4	9.6					
Short-term, OJT (< 30 days) [ST]	44,033	46,208	2,175	4.9	2,573	10,272	12,845
Percent Share of Occupation Group	66.7	68.0					
Moderate-term, OJT (1-12 months) [MT]	15,770	15,237	-533	-3.4	566	2,429	2,995
Percent Share of Occupation Group	23.9	22.4					
Long-term, OJT (> 12 months) [LT]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Apprenticeship [AP]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Internship/residency [IR]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					

## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS

	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>45-0000 Farming, Fishing, and Forestry Occupations</b>							
TYPICAL ENTRY-LEVEL EDUCATION							
No formal educational credential [NC]	<b>6,207</b>	<b>6,167</b>	<b>-40</b>	<b>-0.6</b>	<b>89</b>	<b>1,614</b>	<b>1,703</b>
Percent Share of Occupation Group	89.7	89.1					
High school diploma or equivalent [HS]	<b>455</b>	<b>473</b>	<b>18</b>	<b>4.0</b>	<b>38</b>	<b>109</b>	<b>147</b>
Percent Share of Occupation Group	6.6	6.8					
Postsecondary nondegree award [PA]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Associate's degree [AD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Bachelor's degree [BD]	<b>260</b>	<b>283</b>	<b>23</b>	<b>8.8</b>	<b>23</b>	<b>66</b>	<b>89</b>
Percent Share of Occupation Group	3.8	4.1					
Master's degree [MD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Doctoral or professional degree [DD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
RELATED WORK EXPERIENCE							
None [NX]	<b>6,736</b>	<b>6,754</b>	<b>18</b>	<b>0.3</b>	<b>150</b>	<b>1,744</b>	<b>1,894</b>
Percent Share of Occupation Group	97.3	97.6					
5 years or less [Y1]	<b>186</b>	<b>169</b>	<b>-17</b>	<b>-9.1</b>	<b>0</b>	<b>45</b>	<b>45</b>
Percent Share of Occupation Group	2.7	2.4					
More than 5 years [Y5]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
TYPICAL ON-THE-JOB TRAINING							
None [NT]	<b>186</b>	<b>169</b>	<b>-17</b>	<b>-9.1</b>	<b>0</b>	<b>45</b>	<b>45</b>
Percent Share of Occupation Group	2.7	2.4					
Short-term, OJT (< 30 days) [ST]	<b>6,232</b>	<b>6,192</b>	<b>-40</b>	<b>-0.6</b>	<b>89</b>	<b>1,620</b>	<b>1,709</b>
Percent Share of Occupation Group	90.0	89.4					
Moderate-term, OJT (1-12 months) [MT]	<b>504</b>	<b>562</b>	<b>58</b>	<b>11.5</b>	<b>61</b>	<b>124</b>	<b>185</b>
Percent Share of Occupation Group	7.3	8.1					
Long-term, OJT (> 12 months) [LT]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Apprenticeship [AP]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Internship/residency [IR]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					

## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS

	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>47-0000 Construction and Extraction Occupations</b>							
<b>TYPICAL ENTRY-LEVEL EDUCATION</b>							
No formal educational credential [NC]	17,783	14,592	-3,191	-17.9	65	3,281	3,346
Percent Share of Occupation Group	35.6	34.5					
High school diploma or equivalent [HS]	32,134	27,682	-4,452	-13.9	397	5,835	6,232
Percent Share of Occupation Group	64.4	65.5					
Postsecondary nondegree award [PA]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Associate's degree [AD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Bachelor's degree [BD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Master's degree [MD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Doctoral or professional degree [DD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
<b>RELATED WORK EXPERIENCE</b>							
None [NX]	44,256	37,327	-6,929	-15.7	414	8,611	9,025
Percent Share of Occupation Group	88.7	88.3					
5 years or less [Y1]	3	3	0	0.0	0	1	1
Percent Share of Occupation Group	0.0	0.0					
More than 5 years [Y5]	5,658	4,944	-714	-12.6	48	504	552
Percent Share of Occupation Group	11.3	11.7					
<b>TYPICAL ON-THE-JOB TRAINING</b>							
None [NT]	5,381	4,619	-762	-14.2	0	427	427
Percent Share of Occupation Group	10.8	10.9					
Short-term, OJT (< 30 days) [ST]	9,862	8,719	-1,143	-11.6	39	2,126	2,165
Percent Share of Occupation Group	19.8	20.6					
Moderate-term, OJT (1-12 months) [MT]	22,875	17,125	-5,750	-25.1	150	4,862	5,012
Percent Share of Occupation Group	45.8	40.5					
Long-term, OJT (> 12 months) [LT]	144	149	5	3.5	6	19	25
Percent Share of Occupation Group	0.3	0.4					
Apprenticeship [AP]	11,655	11,662	7	0.1	267	1,682	1,949
Percent Share of Occupation Group	23.3	27.6					
Internship/residency [IR]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					

## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS

	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>49-0000 Installation, Maintenance, and Repair Occupations</b>							
<b>TYPICAL ENTRY-LEVEL EDUCATION</b>							
No formal educational credential [NC]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
High school diploma or equivalent [HS]	17,533	17,375	-158	-0.9	563	4,358	4,921
Percent Share of Occupation Group	67.9	68.1					
Postsecondary nondegree award [PA]	8,035	7,891	-144	-1.8	249	1,576	1,825
Percent Share of Occupation Group	31.1	30.9					
Associate's degree [AD]	242	255	13	5.4	13	38	51
Percent Share of Occupation Group	0.9	1.0					
Bachelor's degree [BD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Master's degree [MD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Doctoral or professional degree [DD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
<b>RELATED WORK EXPERIENCE</b>							
None [NX]	23,631	23,340	-291	-1.2	823	5,537	6,360
Percent Share of Occupation Group	91.6	91.5					
5 years or less [Y1]	2,179	2,181	2	0.1	2	435	437
Percent Share of Occupation Group	8.4	8.5					
More than 5 years [Y5]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
<b>TYPICAL ON-THE-JOB TRAINING</b>							
None [NT]	2,447	2,461	14	0.6	14	499	513
Percent Share of Occupation Group	9.5	9.6					
Short-term, OJT (< 30 days) [ST]	5,431	4,865	-566	-10.4	9	1,442	1,451
Percent Share of Occupation Group	21.0	19.1					
Moderate-term, OJT (1-12 months) [MT]	3,378	3,572	194	5.7	213	602	815
Percent Share of Occupation Group	13.1	14.0					
Long-term, OJT (> 12 months) [LT]	14,288	14,316	28	0.2	548	3,376	3,924
Percent Share of Occupation Group	55.4	56.1					
Apprenticeship [AP]	266	307	41	15.4	41	53	94
Percent Share of Occupation Group	1.0	1.2					
Internship/residency [IR]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					

## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS


	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>51-0000 Production Occupations</b>							
TYPICAL ENTRY-LEVEL EDUCATION							
No formal educational credential [NC]	<b>3,834</b>	<b>3,855</b>	<b>21</b>	<b>0.5</b>	<b>132</b>	<b>777</b>	<b>909</b>
Percent Share of Occupation Group	14.6	14.5					
High school diploma or equivalent [HS]	<b>18,626</b>	<b>19,070</b>	<b>444</b>	<b>2.4</b>	<b>901</b>	<b>4,262</b>	<b>5,163</b>
Percent Share of Occupation Group	71.0	71.8					
Postsecondary nondegree award [PA]	<b>3,487</b>	<b>3,307</b>	<b>-180</b>	<b>-5.2</b>	<b>0</b>	<b>990</b>	<b>990</b>
Percent Share of Occupation Group	13.3	12.5					
Associate's degree [AD]	<b>288</b>	<b>311</b>	<b>23</b>	<b>8.0</b>	<b>24</b>	<b>98</b>	<b>122</b>
Percent Share of Occupation Group	1.1	1.2					
Bachelor's degree [BD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Master's degree [MD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Doctoral or professional degree [DD]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
RELATED WORK EXPERIENCE							
None [NX]	<b>20,792</b>	<b>21,179</b>	<b>387</b>	<b>1.9</b>	<b>973</b>	<b>4,828</b>	<b>5,801</b>
Percent Share of Occupation Group	79.3	79.8					
5 years or less [Y1]	<b>5,443</b>	<b>5,364</b>	<b>-79</b>	<b>-1.5</b>	<b>84</b>	<b>1,299</b>	<b>1,383</b>
Percent Share of Occupation Group	20.7	20.2					
More than 5 years [Y5]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
TYPICAL ON-THE-JOB TRAINING							
None [NT]	<b>2,118</b>	<b>2,185</b>	<b>67</b>	<b>3.2</b>	<b>84</b>	<b>335</b>	<b>419</b>
Percent Share of Occupation Group	8.1	8.2					
Short-term, OJT (< 30 days) [ST]	<b>2,697</b>	<b>2,609</b>	<b>-88</b>	<b>-3.3</b>	<b>53</b>	<b>509</b>	<b>562</b>
Percent Share of Occupation Group	10.3	9.8					
Moderate-term, OJT (1-12 months) [MT]	<b>16,554</b>	<b>16,682</b>	<b>128</b>	<b>0.8</b>	<b>608</b>	<b>3,864</b>	<b>4,472</b>
Percent Share of Occupation Group	63.1	62.8					
Long-term, OJT (> 12 months) [LT]	<b>4,866</b>	<b>5,067</b>	<b>201</b>	<b>4.1</b>	<b>312</b>	<b>1,419</b>	<b>1,731</b>
Percent Share of Occupation Group	18.5	19.1					
Apprenticeship [AP]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					
Internship/residency [IR]	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Percent Share of Occupation Group	0.0	0.0					

## EDUCATION AND TRAINING PROJECTIONS BY MAJOR OCCUPATIONAL GROUPS

	2014 EST	2024 PROJ	NUM CHG	PCT CHG	GROWTH OPENINGS	REPLACEMENT OPENINGS	TOTAL OPENINGS
<b>53-0000 Transportation and Material Moving Occupations</b>							
<b>TYPICAL ENTRY-LEVEL EDUCATION</b>							
No formal educational credential [NC]	16,129	16,137	8	0.0	289	4,744	5,033
Percent Share of Occupation Group	32.6	35.1					
High school diploma or equivalent [HS]	14,273	14,234	-39	-0.3	609	3,802	4,411
Percent Share of Occupation Group	28.9	30.9					
Postsecondary nondegree award [PA]	18,858	15,507	-3,351	-17.8	33	3,227	3,260
Percent Share of Occupation Group	38.2	33.7					
Associate's degree [AD]	129	130	1	0.8	1	40	41
Percent Share of Occupation Group	0.3	0.3					
Bachelor's degree [BD]	18	21	3	16.7	3	4	7
Percent Share of Occupation Group	0.0	0.0					
Master's degree [MD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Doctoral or professional degree [DD]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
<b>RELATED WORK EXPERIENCE</b>							
None [NX]	44,538	41,457	-3,081	-6.9	876	10,167	11,043
Percent Share of Occupation Group	90.1	90.1					
5 years or less [Y1]	4,869	4,572	-297	-6.1	59	1,650	1,709
Percent Share of Occupation Group	9.9	9.9					
More than 5 years [Y5]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
<b>TYPICAL ON-THE-JOB TRAINING</b>							
None [NT]	2,394	2,227	-167	-7.0	1	768	769
Percent Share of Occupation Group	4.8	4.8					
Short-term, OJT (< 30 days) [ST]	41,391	38,398	-2,993	-7.2	672	8,998	9,670
Percent Share of Occupation Group	83.8	83.4					
Moderate-term, OJT (1-12 months) [MT]	5,461	5,240	-221	-4.0	259	2,001	2,260
Percent Share of Occupation Group	11.1	11.4					
Long-term, OJT (> 12 months) [LT]	161	164	3	1.9	3	50	53
Percent Share of Occupation Group	0.3	0.4					
Apprenticeship [AP]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					
Internship/residency [IR]	0	0	0	0.0	0	0	0
Percent Share of Occupation Group	0.0	0.0					

No formal educational credential

2014 Estimate	2024 Projection	Numeric Change	Percent Change	Job Growth Outlook	Growth Openings +	Replacement Openings =	Total Openings	Related Work Exp.	Typical OJT Training	Average 2015 Wages
27-2042 Musicians and Singers										
336	359	23	6.8	Below Average Growth	23	97	120	None	LT	N/A
31-1011 Home Health Aides										
1,320	1,687	367	27.8	High Growth	367	298	665	None	ST	\$30,160
33-9092 Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers										
511	542	31	6.1	Below Average Growth	31	72	103	None	ST	\$20,630
35-2011 Cooks, Fast Food										
1,132	1,048	-84	-7.4	Zero to Declining Growth	0	299	299	None	ST	\$23,490
35-2012 Cooks, Institution and Cafeteria										
1,171	1,352	181	15.5	Avg to Near Avg Growth	181	310	491	None	ST	\$27,800
35-2014 Cooks, Restaurant										
2,674	3,236	562	21.0	High Growth	562	707	1,269	< 5 yrs	MT	\$26,630
35-2015 Cooks, Short Order										
400	400	0	0.0	Zero to Declining Growth	0	106	106	None	ST	\$22,330
35-2021 Food Preparation Workers										
3,057	3,258	201	6.6	Below Average Growth	201	852	1,053	None	ST	\$24,800
35-3011 Bartenders										
3,349	3,908	559	16.7	Avg to Near Avg Growth	559	1,259	1,818	None	ST	\$20,520
35-3021 Combined Food Preparation and Serving Workers, Including Fast Food										
7,211	8,496	1,285	17.8	Avg to Near Avg Growth	1,285	2,330	3,615	None	ST	\$21,710
35-3022 Counter Attendants, Cafeteria, Food Concession, and Coffee Shop										
1,527	1,693	166	10.9	Avg to Near Avg Growth	166	918	1,084	None	ST	\$23,690
35-3031 Waiters and Waitresses										
7,616	8,316	700	9.2	Below Average Growth	700	3,665	4,365	None	ST	\$21,060
35-3041 Food Servers, Nonrestaurant										
1,328	1,556	228	17.2	Avg to Near Avg Growth	228	326	554	None	ST	\$23,340
35-9011 Dining Room and Cafeteria Attendants and Bartender Helpers										
843	924	81	9.6	Below Average Growth	81	421	502	None	ST	\$20,240
35-9021 Dishwashers										
1,525	1,568	43	2.8	Below Average Growth	43	659	702	None	ST	\$19,850

 = indicates 'Bright Outlook' occupation

Typical On-the-Job Training: ST Short-term, on-the-job training (< 30 days) MT Moderate-term, on-the-job training (1-12 months)

LT Long-term, on-the-job training (> 12 months) AP Apprenticeship IR Internship/residency


Occupational wage data, the latest available at the time of publication, originate from the Occupational Employment Statistics (OES) program, which excludes overtime pay and wages not covered by the unemployment insurance program (self-employed workers, farmers, and other agricultural workers account for the vast majority of non-covered wages).

'N/A' indicates the data or information cannot be released due to reliability, availability, or confidentiality restrictions.



## No formal educational credential

	2014 Estimate	2024 Projection	Numeric Change	Percent Change	Job Growth Outlook	Growth Openings +	Replacement Openings =	Total Openings	Related Work Exp.	Typical OJT Training	Average 2015 Wages
 35-9031 Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	1,061	1,187	126	11.9	Avg to Near Avg Growth	126	753	879	None	None	\$19,200
 37-2011 Janitors and Cleaners, Except Maids and Housekeeping Cleaners	7,686	8,790	1,104	14.4	Avg to Near Avg Growth	1,104	1,527	2,631	None	ST	\$28,730
37-2012 Maids and Housekeeping Cleaners	5,695	5,773	78	1.4	Below Average Growth	78	1,358	1,436	None	ST	\$23,540
 37-3011 Landscaping and Groundskeeping Workers	2,753	3,085	332	12.1	Avg to Near Avg Growth	332	496	828	None	ST	\$27,650
39-3031 Ushers, Lobby Attendants, and Ticket Takers	445	478	33	7.4	Below Average Growth	33	280	313	None	ST	\$21,220
 39-3091 Amusement and Recreation Attendants	1,066	1,169	103	9.7	Below Average Growth	103	446	549	None	ST	\$20,960
 39-9021 Personal Care Aides	4,665	6,126	1,461	31.3	High Growth	1,461	377	1,838	None	ST	\$30,450
 41-2011 Cashiers	11,307	11,478	171	1.5	Below Average Growth	171	4,811	4,982	None	ST	\$22,150
41-2021 Counter and Rental Clerks	826	780	-46	-5.6	Zero to Declining Growth	0	204	204	None	ST	\$29,120
41-2022 Parts Salespersons	1,793	1,707	-86	-4.8	Zero to Declining Growth	0	398	398	None	MT	\$39,100
 41-2031 Retail Salespersons	14,163	15,980	1,817	12.8	Avg to Near Avg Growth	1,817	4,909	6,726	None	ST	\$30,740
41-9041 Telemarketers	374	365	-9	-2.4	Zero to Declining Growth	0	69	69	None	ST	\$22,200
 43-5081 Stock Clerks and Order Fillers	5,184	5,538	354	6.8	Below Average Growth	354	1,645	1,999	None	ST	\$28,740
45-2041 Graders and Sorters, Agricultural Products	378	357	-21	-5.6	Zero to Declining Growth	0	61	61	None	ST	\$30,160
45-2091 Agricultural Equipment Operators	860	949	89	10.3	Avg to Near Avg Growth	89	229	318	None	ST	\$36,030

 = indicates 'Bright Outlook' occupation

Typical On-the-Job Training: ST Short-term, on-the-job training (< 30 days) MT Moderate-term, on-the-job training (1-12 months)

LT Long-term, on-the-job training (> 12 months) AP Apprenticeship IR Internship/residency

Occupational wage data, the latest available at the time of publication, originate from the Occupational Employment Statistics (OES) program, which excludes overtime pay and wages not covered by the unemployment insurance program (self-employed workers, farmers, and other agricultural workers account for the vast majority of non-covered wages).

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## No formal educational credential

2014 Estimate	2024 Projection	Numeric Change	Percent Change	Job Growth Outlook	Growth Openings +	Replacement Openings =	Total Openings	Related Work Exp.	Typical OJT Training	Average 2015 Wages
45-2092 Farmworkers and Laborers, Crop, Nursery, and Greenhouse										
3,889	3,806	-83	-2.1	Zero to Declining Growth	0	1,036	1,036	None	ST	\$26,670
45-2093 Farmworkers, Farm, Ranch, and Aquacultural Animals										
971	949	-22	-2.3	Zero to Declining Growth	0	259	259	None	ST	\$26,910
47-2041 Carpet Installers										
145	131	-14	-9.7	Zero to Declining Growth	0	20	20	None	ST	\$31,720
47-2044 Tile and Marble Setters										
101	105	4	4.0	Below Average Growth	4	14	18	None	LT	\$36,420
47-2051 Cement Masons and Concrete Finishers										
1,500	1,486	-14	-0.9	Zero to Declining Growth	0	183	183	None	MT	\$39,770
47-2061 Construction Laborers										
6,785	6,388	-397	-5.9	Zero to Declining Growth	0	1,353	1,353	None	ST	\$39,230
47-2081 Drywall and Ceiling Tile Installers										
236	217	-19	-8.1	Zero to Declining Growth	0	14	14	None	MT	\$38,490
47-2131 Insulation Workers, Floor, Ceiling, and Wall										
301	268	-33	-11.0	Zero to Declining Growth	0	102	102	None	ST	\$42,740
47-2141 Painters, Construction and Maintenance										
921	914	-7	-0.8	Zero to Declining Growth	0	147	147	None	MT	\$39,900
47-2151 Pipelayers										
361	279	-82	-22.7	Zero to Declining Growth	0	48	48	None	ST	\$42,010
47-2181 Roofers										
314	310	-4	-1.3	Zero to Declining Growth	0	48	48	None	MT	\$38,930
47-3012 Helpers--Carpenters										
234	263	29	12.4	Avg to Near Avg Growth	29	29	58	None	ST	\$30,580
47-3016 Helpers--Roofers										
51	50	-1	-2.0	Zero to Declining Growth	0	6	6	None	ST	\$33,800
47-4031 Fence Erectors										
67	63	-4	-6.0	Zero to Declining Growth	0	13	13	None	MT	\$41,090
47-4071 Septic Tank Servicers and Sewer Pipe Cleaners										
43	48	5	11.6	Avg to Near Avg Growth	5	11	16	None	MT	\$41,220

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## No formal educational credential

2014 Estimate	2024 Projection	Numeric Change	Percent Change	Job Growth Outlook	Growth Openings +	Replacement Openings =	Total Openings	Related Work Exp.	Typical OJT Training	Average 2015 Wages
47-5071 Roustabouts, Oil and Gas										
6,332	3,654	-2,678	-42.3	Zero to Declining Growth	0	1,244	1,244	None	MT	\$44,880
51-3011 Bakers										
690	759	69	10.0	Avg to Near Avg Growth	69	151	220	None	LT	\$28,840
51-3021 Butchers and Meat Cutters										
588	603	15	2.6	Below Average Growth	15	116	131	None	LT	\$36,040
51-3022 Meat, Poultry, and Fish Cutters and Trimmers										
150	151	1	0.7	Below Average Growth	1	30	31	None	ST	\$22,530
51-3023 Slaughterers and Meat Packers										
115	118	3	2.6	Below Average Growth	3	23	26	None	ST	\$34,670
51-3091 Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders										
138	140	2	1.4	Below Average Growth	2	29	31	None	MT	\$29,620
51-6011 Laundry and Dry-Cleaning Workers										
966	995	29	3.0	Below Average Growth	29	139	168	None	ST	\$24,890
51-6021 Pressers, Textile, Garment, and Related Materials										
41	39	-2	-4.9	Zero to Declining Growth	0	10	10	None	ST	\$23,210
51-6031 Sewing Machine Operators										
264	246	-18	-6.8	Zero to Declining Growth	0	16	16	None	ST	\$29,290
51-6052 Tailors, Dressmakers, and Custom Sewers										
83	76	-7	-8.4	Zero to Declining Growth	0	28	28	None	MT	N/A
51-9031 Cutters and Trimmers, Hand										
12	12	0	0.0	Zero to Declining Growth	0	2	2	None	ST	\$27,080
51-9123 Painting, Coating, and Decorating Workers										
66	68	2	3.0	Below Average Growth	2	12	14	None	MT	\$33,280
51-9192 Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders										
98	101	3	3.1	Below Average Growth	3	26	29	None	MT	\$28,390
51-9198 Helpers--Production Workers										
537	455	-82	-15.3	Zero to Declining Growth	0	175	175	None	ST	\$32,920
53-3041 Taxi Drivers and Chauffeurs										
878	987	109	12.4	Avg to Near Avg Growth	109	166	275	None	ST	\$26,230



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53-6021 Parking Lot Attendants										
117	121	4	3.4	Below Average Growth	4	65	69	None	ST	\$23,110
53-6031 Automotive and Watercraft Service Attendants										
480	516	36	7.5	Below Average Growth	36	191	227	None	ST	\$29,600
53-7011 Conveyor Operators and Tenders										
348	362	14	4.0	Below Average Growth	14	101	115	None	ST	\$34,530
53-7051 Industrial Truck and Tractor Operators										
1,221	1,225	4	0.3	Below Average Growth	4	304	308	None	ST	\$41,490
53-7061 Cleaners of Vehicles and Equipment										
1,569	1,445	-124	-7.9	Zero to Declining Growth	0	547	547	None	ST	N/A
53-7062 Laborers and Freight, Stock, and Material Movers, Hand										
9,190	9,033	-157	-1.7	Zero to Declining Growth	0	2,735	2,735	None	ST	\$32,190
53-7063 Machine Feeders and Offbearers										
243	257	14	5.8	Below Average Growth	14	53	67	None	ST	\$26,490
53-7064 Packers and Packagers, Hand										
1,132	1,205	73	6.4	Below Average Growth	73	301	374	None	ST	\$23,840
53-7081 Refuse and Recyclable Material Collectors										
230	237	7	3.0	Below Average Growth	7	58	65	None	ST	\$32,710
53-7121 Tank Car, Truck, and Ship Loaders										
293	315	22	7.5	Below Average Growth	22	92	114	None	ST	\$37,760

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11-3071 Transportation, Storage, and Distribution Managers										
382	374	-8	-2.1	Zero to Declining Growth	0	84	84	>= 5 yrs	None	\$82,380
11-9013 Farmers, Ranchers, and Other Agricultural Managers										
26,605	24,932	-1,673	-6.3	Zero to Declining Growth	0	4,533	4,533	>= 5 yrs	None	\$74,970
11-9051 Food Service Managers										
511	567	56	11.0	Avg to Near Avg Growth	56	103	159	< 5 yrs	None	\$55,880
11-9081 Lodging Managers										
159	151	-8	-5.0	Zero to Declining Growth	0	31	31	< 5 yrs	None	\$60,630
11-9131 Postmasters and Mail Superintendents										
118	115	-3	-2.5	Zero to Declining Growth	0	26	26	< 5 yrs	MT	\$58,310
11-9141 Property, Real Estate, and Community Association Managers										
548	640	92	16.8	Avg to Near Avg Growth	92	95	187	< 5 yrs	None	\$60,640
13-1031 Claims Adjusters, Examiners, and Investigators										
883	1,055	172	19.5	Avg to Near Avg Growth	172	219	391	None	LT	\$46,800
17-3031 Surveying and Mapping Technicians										
229	223	-6	-2.6	Zero to Declining Growth	0	26	26	None	MT	\$46,670
21-1093 Social and Human Service Assistants										
1,328	1,619	291	21.9	High Growth	291	260	551	None	ST	\$33,590
21-1094 Community Health Workers										
231	291	60	26.0	High Growth	60	45	105	None	ST	\$35,100
23-2093 Title Examiners, Abstractors, and Searchers										
303	278	-25	-8.3	Zero to Declining Growth	0	67	67	None	ST	\$46,060
25-3021 Self-Enrichment Education Teachers										
658	836	178	27.1	High Growth	178	124	302	< 5 yrs	None	\$26,780
25-9041 Teacher Assistants										
5,019	5,586	567	11.3	Avg to Near Avg Growth	567	1,203	1,770	None	None	\$30,220
27-1023 Floral Designers										
291	315	24	8.2	Below Average Growth	24	69	93	None	MT	\$24,460
27-1026 Merchandise Displayers and Window Trimmers										
301	303	2	0.7	Below Average Growth	2	72	74	None	MT	\$32,180

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27-2022 Coaches and Scouts										
611	703	92	15.1	Avg to Near Avg Growth	92	206	298	< 5 yrs	None	\$34,460
27-2023 Umpires, Referees, and Other Sports Officials										
61	69	8	13.1	Avg to Near Avg Growth	8	21	29	None	MT	\$36,980
27-3011 Radio and Television Announcers										
245	191	-54	-22.0	Zero to Declining Growth	0	71	71	None	ST	\$30,020
27-3012 Public Address System and Other Announcers										
81	103	22	27.2	High Growth	22	23	45	None	ST	\$35,690
27-4021 Photographers										
165	166	1	0.6	Below Average Growth	1	40	41	None	LT	\$35,480
29-2052 Pharmacy Technicians										
689	787	98	14.2	Avg to Near Avg Growth	98	68	166	None	MT	\$36,690
29-2081 Opticians, Dispensing										
311	399	88	28.3	High Growth	88	83	171	None	LT	\$28,850
29-9012 Occupational Health and Safety Technicians										
115	115	0	0.0	Zero to Declining Growth	0	23	23	None	MT	\$59,810
31-1013 Psychiatric Aides										
303	322	19	6.3	Below Average Growth	19	68	87	None	ST	\$29,370
31-1015 Orderlies										
202	234	32	15.8	Avg to Near Avg Growth	32	46	78	None	ST	\$28,120
31-2012 Occupational Therapy Aides										
44	56	12	27.3	High Growth	12	13	25	None	ST	\$37,190
31-2022 Physical Therapist Aides										
121	159	38	31.4	High Growth	38	35	73	None	ST	\$27,760
31-9095 Pharmacy Aides										
338	362	24	7.1	Below Average Growth	24	70	94	None	ST	\$23,310
31-9096 Veterinary Assistants and Laboratory Animal Caretakers										
175	202	27	15.4	Avg to Near Avg Growth	27	36	63	None	ST	\$27,510
33-1011 First-Line Supervisors of Correctional Officers										
213	233	20	9.4	Below Average Growth	20	62	82	< 5 yrs	MT	\$52,710

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33-1012 First-Line Supervisors of Police and Detectives										
204	224	20	9.8	Below Average Growth	20	73	93	< 5 yrs	MT	\$69,710
33-3011 Bailiffs										
231	248	17	7.4	Below Average Growth	17	64	81	None	MT	\$32,910
33-3012 Correctional Officers and Jailers										
954	1,056	102	10.7	Avg to Near Avg Growth	102	262	364	None	MT	\$39,530
33-3021 Detectives and Criminal Investigators										
322	340	18	5.6	Below Average Growth	18	78	96	< 5 yrs	MT	\$77,870
33-3031 Fish and Game Wardens										
52	55	3	5.8	Below Average Growth	3	16	19	None	MT	\$67,760
33-3051 Police and Sheriff's Patrol Officers										
1,314	1,463	149	11.3	Avg to Near Avg Growth	149	433	582	None	MT	\$51,610
33-9011 Animal Control Workers										
11	13	2	18.2	Avg to Near Avg Growth	2	3	5	None	MT	\$43,540
33-9031 Gaming Surveillance Officers and Gaming Investigators										
55	57	2	3.6	Below Average Growth	2	8	10	None	ST	\$35,760
33-9032 Security Guards										
1,700	1,884	184	10.8	Avg to Near Avg Growth	184	239	423	None	ST	\$30,800
33-9093 Transportation Security Screeners										
155	157	2	1.3	Below Average Growth	2	22	24	None	ST	\$39,940
35-1011 Chefs and Head Cooks										
388	434	46	11.9	Avg to Near Avg Growth	46	58	104	>= 5 yrs	None	\$41,390
35-1012 First-Line Supervisors of Food Preparation and Serving Workers										
2,935	3,410	475	16.2	Avg to Near Avg Growth	475	872	1,347	< 5 yrs	None	\$33,520
37-1011 First-Line Supervisors of Housekeeping and Janitorial Workers										
1,043	1,128	85	8.1	Below Average Growth	85	165	250	< 5 yrs	None	\$38,560
37-1012 First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers										
407	438	31	7.6	Below Average Growth	31	68	99	< 5 yrs	None	\$55,100
37-3012 Pesticide Handlers, Sprayers, and Applicators, Vegetation										
261	295	34	13.0	Avg to Near Avg Growth	34	47	81	None	MT	\$37,330

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37-3013 Tree Trimmers and Pruners											
52	55	3	5.8	Below Average Growth	3	9	12	None	ST	\$44,550	
39-1011 Gaming Supervisors											
184	201	17	9.2	Below Average Growth	17	61	78	< 5 yrs	None	\$38,620	
39-1012 Slot Supervisors											
67	60	-7	-10.4	Zero to Declining Growth	0	22	22	< 5 yrs	None	\$32,330	
39-1021 First-Line Supervisors of Personal Service Workers											
838	982	144	17.2	Avg to Near Avg Growth	144	158	302	< 5 yrs	None	\$39,520	
39-2011 Animal Trainers											
119	131	12	10.1	Avg to Near Avg Growth	12	43	55	None	MT	\$27,900	
39-2021 Nonfarm Animal Caretakers											
462	520	58	12.6	Avg to Near Avg Growth	58	95	153	None	ST	\$21,310	
39-3011 Gaming Dealers											
759	828	69	9.1	Below Average Growth	69	203	272	None	ST	\$23,590	
39-3012 Gaming and Sports Book Writers and Runners											
276	348	72	26.1	High Growth	72	74	146	None	ST	\$19,770	
39-3093 Locker Room, Coatroom, and Dressing Room Attendants											
35	39	4	11.4	Avg to Near Avg Growth	4	15	19	None	ST	\$27,270	
39-4021 Funeral Attendants											
111	109	-2	-1.8	Zero to Declining Growth	0	24	24	None	ST	\$23,860	
39-6011 Baggage Porters and Bellhops											
228	237	9	3.9	Below Average Growth	9	46	55	None	ST	\$23,220	
39-7011 Tour Guides and Escorts											
245	259	14	5.7	Below Average Growth	14	96	110	None	MT	\$19,280	
39-9011 Childcare Workers											
4,870	5,617	747	15.3	Avg to Near Avg Growth	747	1,437	2,184	None	ST	\$20,550	
39-9031 Fitness Trainers and Aerobics Instructors											
885	975	90	10.2	Avg to Near Avg Growth	90	163	253	None	ST	\$28,400	
39-9032 Recreation Workers											
757	887	130	17.2	Avg to Near Avg Growth	130	140	270	None	ST	\$29,700	

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 39-9041 Residential Advisors	920	1,068	148	16.1	Avg to Near Avg Growth	148	280	428	None	ST	\$30,900
 41-1011 First-Line Supervisors of Retail Sales Workers	4,662	5,002	340	7.3	Below Average Growth	340	1,042	1,382	< 5 yrs	None	\$44,970
41-1012 First-Line Supervisors of Non-Retail Sales Workers	966	952	-14	-1.4	Zero to Declining Growth	0	111	111	< 5 yrs	None	\$67,500
41-3011 Advertising Sales Agents	626	596	-30	-4.8	Zero to Declining Growth	0	185	185	None	MT	\$41,680
 41-3021 Insurance Sales Agents	1,738	2,095	357	20.5	High Growth	357	456	813	None	MT	\$63,900
41-3041 Travel Agents	142	109	-33	-23.2	Zero to Declining Growth	0	22	22	None	MT	\$35,500
41-4012 Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	4,147	4,069	-78	-1.9	Zero to Declining Growth	0	853	853	None	MT	\$68,670
41-9011 Demonstrators and Product Promoters	141	145	4	2.8	Below Average Growth	4	42	46	None	ST	\$29,920
41-9021 Real Estate Brokers	126	129	3	2.4	Below Average Growth	3	9	12	< 5 yrs	None	N/A
41-9022 Real Estate Sales Agents	931	1,001	70	7.5	Below Average Growth	70	65	135	None	MT	\$51,140
 43-1011 First-Line Supervisors of Office and Administrative Support Workers	3,662	4,093	431	11.8	Avg to Near Avg Growth	431	553	984	< 5 yrs	None	\$55,420
43-2011 Switchboard Operators, Including Answering Service	170	116	-54	-31.8	Zero to Declining Growth	0	20	20	None	ST	\$28,880
43-3011 Bill and Account Collectors	561	553	-8	-1.4	Zero to Declining Growth	0	137	137	None	MT	\$34,660
 43-3021 Billing and Posting Clerks	984	1,125	141	14.3	Avg to Near Avg Growth	141	206	347	None	MT	\$35,000
43-3031 Bookkeeping, Accounting, and Auditing Clerks	7,588	6,804	-784	-10.3	Zero to Declining Growth	0	744	744	None	MT	\$37,910

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43-3041 Gaming Cage Workers										
66	74	8	12.1	Avg to Near Avg Growth	8	13	21	None	ST	\$25,430
43-3051 Payroll and Timekeeping Clerks										
629	601	-28	-4.5	Zero to Declining Growth	0	169	169	None	MT	\$40,470
43-3061 Procurement Clerks										
437	433	-4	-0.9	Zero to Declining Growth	0	152	152	None	MT	\$38,810
43-3071 Tellers										
1,600	1,705	105	6.6	Below Average Growth	105	626	731	None	ST	\$28,220
43-4011 Brokerage Clerks										
62	76	14	22.6	High Growth	14	15	29	None	MT	\$49,320
43-4031 Court, Municipal, and License Clerks										
323	350	27	8.4	Below Average Growth	27	19	46	None	MT	\$43,140
43-4041 Credit Authorizers, Checkers, and Clerks										
232	249	17	7.3	Below Average Growth	17	19	36	None	MT	\$37,260
43-4051 Customer Service Representatives										
6,956	8,086	1,130	16.2	Avg to Near Avg Growth	1,130	1,713	2,843	None	ST	\$33,480
43-4061 Eligibility Interviewers, Government Programs										
436	488	52	11.9	Avg to Near Avg Growth	52	48	100	None	MT	\$43,360
43-4071 File Clerks										
226	221	-5	-2.2	Zero to Declining Growth	0	46	46	None	ST	\$28,780
43-4081 Hotel, Motel, and Resort Desk Clerks										
1,878	1,724	-154	-8.2	Zero to Declining Growth	0	971	971	None	ST	\$25,460
43-4111 Interviewers, Except Eligibility and Loan										
204	224	20	9.8	Below Average Growth	20	46	66	None	ST	\$29,510
43-4121 Library Assistants, Clerical										
350	383	33	9.4	Below Average Growth	33	108	141	None	ST	\$24,590
43-4131 Loan Interviewers and Clerks										
526	656	130	24.7	High Growth	130	81	211	None	ST	\$38,130
43-4141 New Accounts Clerks										
112	118	6	5.4	Below Average Growth	6	27	33	None	MT	\$32,080

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## High school diploma or equivalent

2014 Estimate	2024 Projection	Numeric Change	Percent Change	Job Growth Outlook	Growth Openings +	Replacement Openings =	Total Openings	Related Work Exp.	Typical OJT Training	Average 2015 Wages
43-4151 Order Clerks										
512	554	42	8.2	Below Average Growth	42	139	181	None	ST	\$37,140
43-4161 Human Resources Assistants, Except Payroll and Timekeeping										
424	408	-16	-3.8	Zero to Declining Growth	0	48	48	None	ST	\$38,920
43-4171 Receptionists and Information Clerks										
2,239	2,445	206	9.2	Below Average Growth	206	603	809	None	ST	\$27,300
43-5011 Cargo and Freight Agents										
142	157	15	10.6	Avg to Near Avg Growth	15	46	61	None	ST	\$39,610
43-5021 Couriers and Messengers										
273	289	16	5.9	Below Average Growth	16	34	50	None	ST	\$25,150
43-5031 Police, Fire, and Ambulance Dispatchers										
113	113	0	0.0	Zero to Declining Growth	0	28	28	None	MT	\$37,080
43-5032 Dispatchers, Except Police, Fire, and Ambulance										
1,160	960	-200	-17.2	Zero to Declining Growth	0	290	290	None	MT	\$48,700
43-5041 Meter Readers, Utilities										
91	80	-11	-12.1	Zero to Declining Growth	0	16	16	None	ST	\$49,200
43-5051 Postal Service Clerks										
376	367	-9	-2.4	Zero to Declining Growth	0	45	45	None	ST	\$39,580
43-5052 Postal Service Mail Carriers										
833	811	-22	-2.6	Zero to Declining Growth	0	161	161	None	ST	\$48,560
43-5053 Postal Service Mail Sorters, Processors, and Processing Machine Operators										
311	272	-39	-12.5	Zero to Declining Growth	0	36	36	None	ST	\$45,280
43-5061 Production, Planning, and Expediting Clerks										
1,051	1,131	80	7.6	Below Average Growth	80	285	365	None	MT	\$42,420
43-5071 Shipping, Receiving, and Traffic Clerks										
1,736	1,733	-3	-0.2	Zero to Declining Growth	0	377	377	None	ST	\$32,400
43-5111 Weighers, Measurers, Checkers, and Samplers, Recordkeeping										
230	232	2	0.9	Below Average Growth	2	68	70	None	ST	\$37,090
43-6011 Executive Secretaries and Executive Administrative Assistants										
2,384	2,310	-74	-3.1	Zero to Declining Growth	0	251	251	< 5 yrs	None	\$48,340

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43-6012 Legal Secretaries										
326	305	-21	-6.4	Zero to Declining Growth	0	34	34	None	MT	\$38,000
43-6013 Medical Secretaries										
535	663	128	23.9	High Growth	128	56	184	None	MT	\$31,250
43-6014 Secretaries and Administrative Assistants, Except Legal, Medical, and Executive										
7,607	7,880	273	3.6	Below Average Growth	273	802	1,075	None	ST	\$36,400
43-9011 Computer Operators										
195	165	-30	-15.4	Zero to Declining Growth	0	15	15	None	MT	\$34,480
43-9021 Data Entry Keyers										
577	553	-24	-4.2	Zero to Declining Growth	0	73	73	None	MT	\$31,070
43-9022 Word Processors and Typists										
134	113	-21	-15.7	Zero to Declining Growth	0	5	5	None	ST	\$28,080
43-9041 Insurance Claims and Policy Processing Clerks										
449	550	101	22.5	High Growth	101	112	213	None	MT	\$38,880
43-9051 Mail Clerks and Mail Machine Operators, Except Postal Service										
187	168	-19	-10.2	Zero to Declining Growth	0	38	38	None	ST	\$27,730
43-9061 Office Clerks, General										
10,432	10,583	151	1.4	Below Average Growth	151	2,250	2,401	None	ST	\$26,940
43-9071 Office Machine Operators, Except Computer										
180	162	-18	-10.0	Zero to Declining Growth	0	41	41	None	ST	\$25,840
45-1011 First-Line Supervisors of Farming, Fishing, and Forestry Workers										
186	169	-17	-9.1	Zero to Declining Growth	0	45	45	< 5 yrs	None	\$52,090
45-2021 Animal Breeders										
28	28	0	0.0	Zero to Declining Growth	0	7	7	None	ST	N/A
45-4011 Forest and Conservation Workers										
207	245	38	18.4	Avg to Near Avg Growth	38	49	87	None	MT	\$34,060
47-1011 First-Line Supervisors of Construction Trades and Extraction Workers										
5,381	4,619	-762	-14.2	Zero to Declining Growth	0	427	427	>= 5 yrs	None	\$76,840
47-2021 Brickmasons and Blockmasons										
158	166	8	5.1	Below Average Growth	8	13	21	None	AP	\$62,050

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47-2022 Stonemasons										
37	38	1	2.7	Below Average Growth	1	3	4	None	AP	\$40,750
47-2031 Carpenters										
3,256	3,472	216	6.6	Below Average Growth	216	374	590	None	AP	\$39,850
47-2071 Paving, Surfacing, and Tamping Equipment Operators										
472	352	-120	-25.4	Zero to Declining Growth	0	113	113	None	MT	\$48,580
47-2073 Operating Engineers and Other Construction Equipment Operators										
4,611	3,933	-678	-14.7	Zero to Declining Growth	0	769	769	None	MT	\$54,850
47-2111 Electricians										
4,479	4,413	-66	-1.5	Zero to Declining Growth	0	684	684	None	AP	\$59,410
47-2121 Glaziers										
235	241	6	2.6	Below Average Growth	6	34	40	None	AP	\$47,870
47-2132 Insulation Workers, Mechanical										
202	207	5	2.5	Below Average Growth	5	68	73	None	AP	\$41,980
47-2152 Plumbers, Pipefitters, and Steamfitters										
1,932	1,750	-182	-9.4	Zero to Declining Growth	0	255	255	None	AP	\$51,610
47-2211 Sheet Metal Workers										
628	616	-12	-1.9	Zero to Declining Growth	0	135	135	None	AP	\$41,880
47-2221 Structural Iron and Steel Workers										
323	334	11	3.4	Below Average Growth	11	54	65	None	AP	\$53,940
47-3013 Helpers--Electricians										
40	39	-1	-2.5	Zero to Declining Growth	0	5	5	None	ST	\$32,180
47-3015 Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters										
251	202	-49	-19.5	Zero to Declining Growth	0	32	32	None	ST	\$30,940
47-4011 Construction and Building Inspectors										
277	325	48	17.3	Avg to Near Avg Growth	48	77	125	>= 5 yrs	MT	\$63,500
47-4041 Hazardous Materials Removal Workers										
143	141	-2	-1.4	Zero to Declining Growth	0	32	32	None	MT	\$48,270
47-4051 Highway Maintenance Workers										
1,148	1,229	81	7.1	Below Average Growth	81	306	387	None	MT	\$44,970

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47-5011	Derrick Operators, Oil and Gas	1,473	868	-605	-41.1	Zero to Declining Growth	0	504	504	None	ST	\$58,820
47-5012	Rotary Drill Operators, Oil and Gas	1,880	1,196	-684	-36.4	Zero to Declining Growth	0	643	643	None	MT	\$65,140
47-5013	Service Unit Operators, Oil, Gas, and Mining	2,785	1,714	-1,071	-38.5	Zero to Declining Growth	0	952	952	None	MT	\$54,790
47-5021	Earth Drillers, Except Oil and Gas	303	219	-84	-27.7	Zero to Declining Growth	0	68	68	None	MT	N/A
47-5081	Helpers--Extraction Workers	616	378	-238	-38.6	Zero to Declining Growth	0	72	72	None	MT	\$39,550
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	2,179	2,181	2	0.1	Below Average Growth	2	435	437	< 5 yrs	None	\$66,930
49-2098	Security and Fire Alarm Systems Installers	53	60	7	13.2	Avg to Near Avg Growth	7	13	20	None	MT	\$47,050
49-3021	Automotive Body and Related Repairers	590	627	37	6.3	Below Average Growth	37	136	173	None	LT	\$46,570
49-3041	Farm Equipment Mechanics and Service Technicians	1,238	1,199	-39	-3.2	Zero to Declining Growth	0	293	293	None	LT	\$48,100
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	1,291	1,105	-186	-14.4	Zero to Declining Growth	0	305	305	None	LT	\$63,620
49-3051	Motorboat Mechanics and Service Technicians	111	103	-8	-7.2	Zero to Declining Growth	0	22	22	None	LT	\$39,710
49-3052	Motorcycle Mechanics	52	50	-2	-3.8	Zero to Declining Growth	0	10	10	None	ST	\$36,980
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	197	197	0	0.0	Zero to Declining Growth	0	40	40	None	MT	\$40,690
49-3092	Recreational Vehicle Service Technicians	82	75	-7	-8.5	Zero to Declining Growth	0	28	28	None	LT	\$39,810
49-3093	Tire Repairers and Changers	591	556	-35	-5.9	Zero to Declining Growth	0	201	201	None	ST	\$30,210

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49-9012 Control and Valve Installers and Repairers, Except Mechanical Door										
144	151	7	4.9	Below Average Growth	7	57	64	None	MT	\$68,310
49-9031 Home Appliance Repairers										
234	238	4	1.7	Below Average Growth	4	63	67	None	MT	\$39,870
49-9041 Industrial Machinery Mechanics										
1,527	1,694	167	10.9	Avg to Near Avg Growth	167	396	563	None	LT	\$59,190
49-9043 Maintenance Workers, Machinery										
1,195	1,282	87	7.3	Below Average Growth	87	191	278	None	MT	\$50,610
49-9044 Millwrights										
247	286	39	15.8	Avg to Near Avg Growth	39	50	89	None	AP	\$50,960
49-9051 Electrical Power-Line Installers and Repairers										
830	842	12	1.4	Below Average Growth	12	331	343	None	LT	\$64,970
49-9052 Telecommunications Line Installers and Repairers										
271	267	-4	-1.5	Zero to Declining Growth	0	49	49	None	LT	\$60,820
49-9071 Maintenance and Repair Workers, General										
3,960	4,107	147	3.7	Below Average Growth	147	1,038	1,185	None	LT	\$41,170
49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers										
106	105	-1	-0.9	Zero to Declining Growth	0	14	14	None	ST	\$35,990
49-9094 Locksmiths and Safe Repairers										
71	64	-7	-9.9	Zero to Declining Growth	0	36	36	None	LT	\$32,630
49-9098 Helpers--Installation, Maintenance, and Repair Workers										
672	576	-96	-14.3	Zero to Declining Growth	0	217	217	None	ST	\$31,120
51-1011 First-Line Supervisors of Production and Operating Workers										
2,037	2,121	84	4.1	Below Average Growth	84	322	406	< 5 yrs	None	\$62,120
51-2022 Electrical and Electronic Equipment Assemblers										
543	574	31	5.7	Below Average Growth	31	67	98	None	MT	\$31,350
51-2031 Engine and Other Machine Assemblers										
256	270	14	5.5	Below Average Growth	14	51	65	None	MT	\$41,070
51-2041 Structural Metal Fabricators and Fitters										
98	92	-6	-6.1	Zero to Declining Growth	0	16	16	None	MT	\$39,890

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51-2091 Fiberglass Laminators and Fabricators										
240	272	32	13.3	Avg to Near Avg Growth	32	52	84	None	MT	\$39,120
51-2092 Team Assemblers										
2,887	3,088	201	7.0	Below Average Growth	201	620	821	None	MT	\$31,730
51-3092 Food Batchmakers										
310	314	4	1.3	Below Average Growth	4	67	71	None	MT	\$27,480
51-3093 Food Cooking Machine Operators and Tenders										
68	69	1	1.5	Below Average Growth	1	14	15	None	MT	\$27,180
51-4011 Computer-Controlled Machine Tool Operators, Metal and Plastic										
121	155	34	28.1	High Growth	34	37	71	None	MT	\$43,460
51-4021 Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic										
66	64	-2	-3.0	Zero to Declining Growth	0	16	16	None	MT	\$32,810
51-4022 Forging Machine Setters, Operators, and Tenders, Metal and Plastic										
14	12	-2	-14.3	Zero to Declining Growth	0	3	3	None	MT	\$31,390
51-4031 Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic										
285	246	-39	-13.7	Zero to Declining Growth	0	36	36	None	MT	\$35,510
51-4032 Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic										
55	47	-8	-14.5	Zero to Declining Growth	0	10	10	None	MT	\$38,530
51-4033 Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic										
166	124	-42	-25.3	Zero to Declining Growth	0	69	69	None	MT	\$30,760
51-4041 Machinists										
726	825	99	13.6	Avg to Near Avg Growth	99	210	309	None	LT	\$42,230
51-4072 Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic										
249	218	-31	-12.4	Zero to Declining Growth	0	37	37	None	MT	\$34,260
51-4081 Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic										
104	111	7	6.7	Below Average Growth	7	18	25	None	MT	\$36,940
51-4111 Tool and Die Makers										
57	53	-4	-7.0	Zero to Declining Growth	0	3	3	None	LT	\$44,950
51-4192 Layout Workers, Metal and Plastic										
22	19	-3	-13.6	Zero to Declining Growth	0	4	4	None	MT	\$27,690

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51-4193 Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic										
37	32	-5	-13.5	Zero to Declining Growth	0	9	9	None	MT	\$41,010
51-5112 Printing Press Operators										
375	349	-26	-6.9	Zero to Declining Growth	0	56	56	None	MT	\$35,810
51-5113 Print Binding and Finishing Workers										
137	127	-10	-7.3	Zero to Declining Growth	0	21	21	None	ST	\$30,060
51-6063 Textile Knitting and Weaving Machine Setters, Operators, and Tenders										
18	13	-5	-27.8	Zero to Declining Growth	0	3	3	None	ST	N/A
51-6093 Upholsterers										
54	53	-1	-1.9	Zero to Declining Growth	0	14	14	None	MT	N/A
51-7011 Cabinetmakers and Bench Carpenters										
407	432	25	6.1	Below Average Growth	25	33	58	None	MT	\$39,460
51-7041 Sawing Machine Setters, Operators, and Tenders, Wood										
44	47	3	6.8	Below Average Growth	3	13	16	None	ST	\$29,940
51-7042 Woodworking Machine Setters, Operators, and Tenders, Except Sawing										
74	82	8	10.8	Avg to Near Avg Growth	8	13	21	None	ST	\$33,290
51-8021 Stationary Engineers and Boiler Operators										
171	186	15	8.8	Below Average Growth	15	47	62	None	LT	\$55,300
51-8031 Water and Wastewater Treatment Plant and System Operators										
539	607	68	12.6	Avg to Near Avg Growth	68	137	205	None	LT	\$44,270
51-8092 Gas Plant Operators										
664	652	-12	-1.8	Zero to Declining Growth	0	251	251	None	LT	N/A
51-8093 Petroleum Pump System Operators, Refinery Operators, and Gaugers										
868	784	-84	-9.7	Zero to Declining Growth	0	328	328	None	LT	\$65,000
51-9012 Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders										
285	333	48	16.8	Avg to Near Avg Growth	48	90	138	None	MT	\$39,840
51-9021 Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders										
146	142	-4	-2.7	Zero to Declining Growth	0	32	32	None	MT	\$51,290
51-9023 Mixing and Blending Machine Setters, Operators, and Tenders										
302	279	-23	-7.6	Zero to Declining Growth	0	65	65	None	MT	\$39,980

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51-9032 Cutting and Slicing Machine Setters, Operators, and Tenders										
170	176	6	3.5	Below Average Growth	6	34	40	None	ST	\$31,760
51-9051 Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders										
77	72	-5	-6.5	Zero to Declining Growth	0	20	20	None	MT	\$33,160
51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers										
1,720	1,766	46	2.7	Below Average Growth	46	432	478	None	MT	\$57,410
51-9071 Jewelers and Precious Stone and Metal Workers										
104	94	-10	-9.6	Zero to Declining Growth	0	16	16	None	LT	\$39,520
51-9081 Dental Laboratory Technicians										
125	145	20	16.0	Avg to Near Avg Growth	20	30	50	None	MT	\$36,060
51-9083 Ophthalmic Laboratory Technicians										
37	39	2	5.4	Below Average Growth	2	9	11	None	MT	\$29,830
51-9111 Packaging and Filling Machine Operators and Tenders										
869	872	3	0.3	Below Average Growth	3	310	313	None	MT	\$28,650
51-9121 Coating, Painting, and Spraying Machine Setters, Operators, and Tenders										
319	328	9	2.8	Below Average Growth	9	60	69	None	MT	\$36,580
51-9122 Painters, Transportation Equipment										
160	170	10	6.3	Below Average Growth	10	30	40	None	MT	\$45,490
51-9151 Photographic Process Workers and Processing Machine Operators										
77	54	-23	-29.9	Zero to Declining Growth	0	15	15	None	ST	\$26,200
51-9194 Etchers and Engravers										
34	34	0	0.0	Zero to Declining Growth	0	9	9	None	MT	\$33,460
51-9195 Molders, Shapers, and Casters, Except Metal and Plastic										
60	59	-1	-1.7	Zero to Declining Growth	0	21	21	None	LT	\$34,550
53-1011 Aircraft Cargo Handling Supervisors										
35	36	1	2.9	Below Average Growth	1	11	12	< 5 yrs	None	\$59,610
53-1021 First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand										
1,084	1,003	-81	-7.5	Zero to Declining Growth	0	348	348	< 5 yrs	None	\$50,930
53-1031 First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators										
1,271	1,184	-87	-6.8	Zero to Declining Growth	0	408	408	< 5 yrs	None	\$68,310

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## High school diploma or equivalent

	2014 Estimate	2024 Projection	Numeric Change	Percent Change	Job Growth Outlook	Growth Openings	+ Replacement Openings	= Total Openings	Related Work Exp.	Typical OJT Training	Average 2015 Wages
 53-3011 Ambulance Drivers and Attendants, Except Emergency Medical Technicians	328	402	74	22.6	High Growth	74	55	129	None	MT	\$24,330
 53-3021 Bus Drivers, Transit and Intercity	166	208	42	25.3	High Growth	42	22	64	None	MT	\$33,620
 53-3022 Bus Drivers, School or Special Client	1,388	1,598	210	15.1	Avg to Near Avg Growth	210	182	392	None	ST	\$40,350
53-3031 Driver/Sales Workers	1,740	1,801	61	3.5	Below Average Growth	61	296	357	None	ST	\$28,200
 53-3033 Light Truck or Delivery Services Drivers	3,415	3,521	106	3.1	Below Average Growth	106	581	687	None	ST	\$35,680
53-6041 Traffic Technicians	16	18	2	12.5	Avg to Near Avg Growth	2	8	10	None	MT	\$51,840
53-7021 Crane and Tower Operators	363	342	-21	-5.8	Zero to Declining Growth	0	126	126	< 5 yrs	MT	\$52,700
53-7032 Excavating and Loading Machine and Dragline Operators	616	530	-86	-14.0	Zero to Declining Growth	0	72	72	< 5 yrs	MT	\$54,930
 53-7071 Gas Compressor and Gas Pumping Station Operators	235	285	50	21.3	High Growth	50	119	169	None	MT	\$61,910
53-7072 Pump Operators, Except Wellhead Pumpers	901	751	-150	-16.6	Zero to Declining Growth	0	457	457	None	MT	\$49,780
53-7073 Wellhead Pumpers	850	905	55	6.5	Below Average Growth	55	431	486	< 5 yrs	MT	\$64,820

 = indicates 'Bright Outlook' occupation

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## Postsecondary nondegree award

	2014 Estimate	2024 Projection	Numeric Change	Percent Change	Job Growth Outlook	Growth Openings +	Replacement Openings =	Total Openings	Related Work Exp.	Typical OJT Training	Average 2015 Wages
13-1032 Insurance Appraisers, Auto Damage	18	21	3	16.7	Avg to Near Avg Growth	3	4	7	None	MT	\$64,070
23-2091 Court Reporters	85	87	2	2.4	Below Average Growth	2	19	21	None	ST	\$49,510
25-4031 Library Technicians	144	157	13	9.0	Below Average Growth	13	69	82	None	None	\$31,060
27-4011 Audio and Video Equipment Technicians	87	110	23	26.4	High Growth	23	17	40	None	ST	\$37,740
 29-2041 Emergency Medical Technicians and Paramedics	1,032	1,338	306	29.7	High Growth	306	169	475	None	None	\$31,330
29-2053 Psychiatric Technicians	24	31	7	29.2	High Growth	7	2	9	< 5 yrs	ST	\$44,210
 29-2055 Surgical Technologists	318	395	77	24.2	High Growth	77	31	108	None	None	\$39,700
29-2057 Ophthalmic Medical Technicians	99	125	26	26.3	High Growth	26	10	36	None	None	\$42,570
 29-2061 Licensed Practical and Licensed Vocational Nurses	2,923	3,412	489	16.7	Avg to Near Avg Growth	489	832	1,321	None	None	\$41,250
 29-2071 Medical Records and Health Information Technicians	901	1,108	207	23.0	High Growth	207	202	409	None	None	\$38,550
29-2092 Hearing Aid Specialists	15	21	6	40.0	High Growth	6	1	7	None	None	\$50,720
 31-1014 Nursing Assistants	7,163	8,647	1,484	20.7	High Growth	1,484	1,618	3,102	None	None	\$29,520
31-9011 Massage Therapists	379	441	62	16.4	Avg to Near Avg Growth	62	28	90	None	None	\$44,960
 31-9091 Dental Assistants	674	803	129	19.1	Avg to Near Avg Growth	129	167	296	None	None	\$42,000
 31-9092 Medical Assistants	668	831	163	24.4	High Growth	163	139	302	None	None	\$33,240

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## Postsecondary nondegree award

2014 Estimate	2024 Projection	Numeric Change	Percent Change	Job Growth Outlook	Growth Openings +	Replacement Openings =	Total Openings	Related Work Exp.	Typical OJT Training	Average 2015 Wages
31-9094 Medical Transcriptionists										
501	512	11	2.2	Below Average Growth	11	104	115	None	None	\$34,810
31-9097 Phlebotomists										
589	775	186	31.6	High Growth	186	123	309	None	None	\$27,300
33-1021 First-Line Supervisors of Fire Fighting and Prevention Workers										
130	144	14	10.8	Avg to Near Avg Growth	14	62	76	< 5 yrs	MT	\$59,420
33-2011 Firefighters										
303	337	34	11.2	Avg to Near Avg Growth	34	88	122	None	LT	\$42,720
33-2021 Fire Inspectors and Investigators										
17	19	2	11.8	Avg to Near Avg Growth	2	5	7	>= 5 yrs	MT	\$57,910
35-2013 Cooks, Private Household										
193	190	-3	-1.6	Zero to Declining Growth	0	51	51	< 5 yrs	None	N/A
39-5011 Barbers										
171	185	14	8.2	Below Average Growth	14	32	46	None	None	N/A
39-5012 Hairdressers, Hairstylists, and Cosmetologists										
2,031	2,200	169	8.3	Below Average Growth	169	523	692	None	None	\$29,650
39-5092 Manicurists and Pedicurists										
232	253	21	9.1	Below Average Growth	21	18	39	None	None	\$19,660
39-5094 Skincare Specialists										
85	95	10	11.8	Avg to Near Avg Growth	10	7	17	None	None	\$32,040
49-2011 Computer, Automated Teller, and Office Machine Repairers										
340	349	9	2.6	Below Average Growth	9	66	75	None	ST	\$36,790
49-2022 Telecommunications Equipment Installers and Repairers, Except Line Installers										
580	641	61	10.5	Avg to Near Avg Growth	61	52	113	None	MT	\$63,950
49-2092 Electric Motor, Power Tool, and Related Repairers										
81	72	-9	-11.1	Zero to Declining Growth	0	22	22	None	LT	\$43,710
49-2094 Electrical and Electronics Repairers, Commercial and Industrial Equipment										
309	319	10	3.2	Below Average Growth	10	53	63	None	LT	\$64,830
49-2095 Electrical and Electronics Repairers, Powerhouse, Substation, and Relay										
61	62	1	1.6	Below Average Growth	1	11	12	None	LT	\$85,120

 = indicates 'Bright Outlook' occupation


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## Postsecondary nondegree award

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49-2096 Electronic Equipment Installers and Repairers, Motor Vehicles										
73	37	-36	-49.3	Zero to Declining Growth	0	13	13	None	ST	\$36,150
49-2097 Electronic Home Entertainment Equipment Installers and Repairers										
277	240	-37	-13.4	Zero to Declining Growth	0	39	39	None	ST	\$40,970
49-3011 Aircraft Mechanics and Service Technicians										
268	280	12	4.5	Below Average Growth	12	64	76	None	None	\$57,800
49-3023 Automotive Service Technicians and Mechanics										
2,494	2,423	-71	-2.8	Zero to Declining Growth	0	668	668	None	ST	\$42,570
49-3031 Bus and Truck Mechanics and Diesel Engine Specialists										
2,393	2,170	-223	-9.3	Zero to Declining Growth	0	411	411	None	LT	\$51,620
49-9021 Heating, Air Conditioning, and Refrigeration Mechanics and Installers										
956	939	-17	-1.8	Zero to Declining Growth	0	146	146	None	LT	\$50,480
49-9081 Wind Turbine Service Technicians										
 158	311	153	96.8	Exceptional Growth	153	24	177	None	LT	\$59,870
51-4121 Welders, Cutters, Solderers, and Brazers										
2,791	2,720	-71	-2.5	Zero to Declining Growth	0	801	801	< 5 yrs	MT	\$53,100
51-4122 Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders										
615	523	-92	-15.0	Zero to Declining Growth	0	176	176	< 5 yrs	MT	\$44,200
51-5111 Prepress Technicians and Workers										
81	64	-17	-21.0	Zero to Declining Growth	0	13	13	None	None	\$30,470
53-2012 Commercial Pilots										
269	302	33	12.3	Avg to Near Avg Growth	33	65	98	None	MT	\$59,720
53-3032 Heavy and Tractor-Trailer Truck Drivers										
18,585	15,201	-3,384	-18.2	Zero to Declining Growth	0	3,161	3,161	None	ST	\$53,400

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## Associate's degree

2014 Estimate	2024 Projection	Numeric Change	Percent Change	Job Growth Outlook	Growth Openings +	Replacement Openings =	Total Openings	Related Work Exp.	Typical OJT Training	Average 2015 Wages
11-9061 Funeral Service Managers										
75	76	1	1.3	Below Average Growth	1	17	18	< 5 yrs	None	\$69,050
15-1134 Web Developers										
273	370	97	35.5	High Growth	97	35	132	None	None	\$58,670
15-1151 Computer User Support Specialists										
1,396	1,655	259	18.6	Avg to Near Avg Growth	259	180	439	None	None	\$46,820
15-1152 Computer Network Support Specialists										
453	545	92	20.3	High Growth	92	58	150	None	None	\$53,640
17-3011 Architectural and Civil Drafters										
334	350	16	4.8	Below Average Growth	16	40	56	None	None	\$48,540
17-3012 Electrical and Electronics Drafters										
43	47	4	9.3	Below Average Growth	4	5	9	None	None	\$52,300
17-3013 Mechanical Drafters										
171	173	2	1.2	Below Average Growth	2	20	22	None	None	\$47,130
17-3021 Aerospace Engineering and Operations Technicians										
29	33	4	13.8	Avg to Near Avg Growth	4	7	11	None	None	\$58,390
17-3022 Civil Engineering Technicians										
519	582	63	12.1	Avg to Near Avg Growth	63	127	190	None	None	\$50,720
17-3023 Electrical and Electronic Engineering Technicians										
335	340	5	1.5	Below Average Growth	5	82	87	None	None	\$60,830
17-3025 Environmental Engineering Technicians										
26	27	1	3.8	Below Average Growth	1	6	7	None	None	\$63,720
17-3026 Industrial Engineering Technicians										
292	314	22	7.5	Below Average Growth	22	71	93	None	None	\$43,950
17-3027 Mechanical Engineering Technicians										
168	174	6	3.6	Below Average Growth	6	41	47	None	None	\$56,630
19-4011 Agricultural and Food Science Technicians										
216	235	19	8.8	Below Average Growth	19	70	89	None	MT	\$40,620
19-4031 Chemical Technicians										
101	112	11	10.9	Avg to Near Avg Growth	11	30	41	None	MT	\$72,000

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## Associate's degree

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19-4091 Environmental Science and Protection Technicians, Including Health	122	125	3	2.5	Below Average Growth	3	51	54	None	None	\$50,890
19-4093 Forest and Conservation Technicians	145	151	6	4.1	Below Average Growth	6	61	67	None	None	\$43,240
23-2011 Paralegals and Legal Assistants	443	468	25	5.6	Below Average Growth	25	97	122	None	None	\$43,740
 25-2011 Preschool Teachers, Except Special Education	718	848	130	18.1	Avg to Near Avg Growth	130	210	340	None	None	\$37,960
27-4012 Broadcast Technicians	96	85	-11	-11.5	Zero to Declining Growth	0	18	18	None	ST	\$40,050
29-1126 Respiratory Therapists	293	348	55	18.8	Avg to Near Avg Growth	55	69	124	None	None	\$50,960
 29-2012 Medical and Clinical Laboratory Technicians	270	328	58	21.5	High Growth	58	65	123	None	None	\$41,730
 29-2021 Dental Hygienists	624	744	120	19.2	Avg to Near Avg Growth	120	103	223	None	None	\$64,510
 29-2031 Cardiovascular Technologists and Technicians	100	134	34	34.0	High Growth	34	19	53	None	None	\$43,250
29-2032 Diagnostic Medical Sonographers	97	130	33	34.0	High Growth	33	18	51	None	None	\$64,840
29-2034 Radiologic Technologists	443	505	62	14.0	Avg to Near Avg Growth	62	84	146	None	None	\$49,990
29-2035 Magnetic Resonance Imaging Technologists	89	102	13	14.6	Avg to Near Avg Growth	13	17	30	< 5 yrs	None	\$58,630
29-2051 Dietetic Technicians	321	382	61	19.0	Avg to Near Avg Growth	61	32	93	None	None	\$29,710
 29-2056 Veterinary Technologists and Technicians	162	197	35	21.6	High Growth	35	16	51	None	None	\$34,110
31-2011 Occupational Therapy Assistants	76	99	23	30.3	High Growth	23	22	45	None	None	\$45,900

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## Associate's degree

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 31-2021 Physical Therapist Assistants	124	164	40	32.3	High Growth	40	36	76	None	None	\$45,560
39-4031 Morticians, Undertakers, and Funeral Directors	70	74	4	5.7	Below Average Growth	4	15	19	None	AP	\$47,460
43-9031 Desktop Publishers	105	93	-12	-11.4	Zero to Declining Growth	0	28	28	None	ST	\$31,710
49-2021 Radio, Cellular, and Tower Equipment Installers and Repairers	58	64	6	10.3	Avg to Near Avg Growth	6	5	11	None	MT	\$54,790
49-9062 Medical Equipment Repairers	161	166	5	3.1	Below Average Growth	5	29	34	None	MT	\$54,350
51-8012 Power Distributors and Dispatchers	38	43	5	13.2	Avg to Near Avg Growth	5	13	18	None	LT	\$93,840
51-8013 Power Plant Operators	244	263	19	7.8	Below Average Growth	19	84	103	None	LT	\$75,590
53-2021 Air Traffic Controllers	129	130	1	0.8	Below Average Growth	1	40	41	None	LT	\$90,450

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## Bachelor's degree

2014 Estimate	2024 Projection	Numeric Change	Percent Change	Job Growth Outlook	Growth Openings +	Replacement Openings =	Total Openings	Related Work Exp.	Typical OJT Training	Average 2015 Wages
11-1011 Chief Executives										
2,539	2,446	-93	-3.7	Zero to Declining Growth	0	432	432	>= 5 yrs	None	\$158,580
11-1021 General and Operations Managers										
7,369	7,650	281	3.8	Below Average Growth	281	1,865	2,146	>= 5 yrs	None	\$104,550
11-2011 Advertising and Promotions Managers										
79	83	4	5.1	Below Average Growth	4	25	29	< 5 yrs	None	\$75,340
11-2021 Marketing Managers										
334	388	54	16.2	Avg to Near Avg Growth	54	79	133	>= 5 yrs	None	\$104,900
11-2022 Sales Managers										
817	822	5	0.6	Below Average Growth	5	193	198	< 5 yrs	None	\$106,870
11-2031 Public Relations and Fundraising Managers										
185	206	21	11.4	Avg to Near Avg Growth	21	63	84	>= 5 yrs	None	\$88,940
11-3011 Administrative Services Managers										
674	724	50	7.4	Below Average Growth	50	126	176	< 5 yrs	None	\$80,720
11-3021 Computer and Information Systems Managers										
519	645	126	24.3	High Growth	126	61	187	>= 5 yrs	None	\$106,140
11-3031 Financial Managers										
973	1,115	142	14.6	Avg to Near Avg Growth	142	230	372	>= 5 yrs	None	\$110,890
11-3051 Industrial Production Managers										
343	374	31	9.0	Below Average Growth	31	97	128	>= 5 yrs	None	\$96,860
11-3061 Purchasing Managers										
135	147	12	8.9	Below Average Growth	12	32	44	>= 5 yrs	None	\$92,320
11-3111 Compensation and Benefits Managers										
36	44	8	22.2	High Growth	8	11	19	>= 5 yrs	None	\$98,110
11-3121 Human Resources Managers										
198	229	31	15.7	Avg to Near Avg Growth	31	58	89	>= 5 yrs	None	\$95,760
11-3131 Training and Development Managers										
73	84	11	15.1	Avg to Near Avg Growth	11	21	32	>= 5 yrs	None	\$100,920
11-9021 Construction Managers										
845	844	-1	-0.1	Zero to Declining Growth	0	118	118	None	MT	\$84,890

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## Bachelor's degree

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 11-9031 Education Administrators, Preschool and Childcare Center/Program	143	175	32	22.4	High Growth	32	42	74	< 5 yrs	None	\$39,900
11-9041 Architectural and Engineering Managers	332	363	31	9.3	Below Average Growth	31	102	133	>= 5 yrs	None	\$125,420
 11-9111 Medical and Health Services Managers	843	1,023	180	21.4	High Growth	180	213	393	< 5 yrs	None	\$91,540
11-9121 Natural Sciences Managers	152	159	7	4.6	Below Average Growth	7	32	39	>= 5 yrs	None	\$94,620
11-9151 Social and Community Service Managers	618	714	96	15.5	Avg to Near Avg Growth	96	164	260	>= 5 yrs	None	\$64,230
11-9161 Emergency Management Directors	77	83	6	7.8	Below Average Growth	6	9	15	>= 5 yrs	None	\$60,100
13-1021 Buyers and Purchasing Agents, Farm Products	83	85	2	2.4	Below Average Growth	2	18	20	None	LT	\$62,770
13-1022 Wholesale and Retail Buyers, Except Farm Products	389	427	38	9.8	Below Average Growth	38	123	161	None	LT	\$51,550
13-1023 Purchasing Agents, Except Wholesale, Retail, and Farm Products	472	487	15	3.2	Below Average Growth	15	130	145	None	LT	\$55,940
 13-1041 Compliance Officers	1,161	1,262	101	8.7	Below Average Growth	101	163	264	None	MT	\$59,000
13-1051 Cost Estimators	673	668	-5	-0.7	Zero to Declining Growth	0	192	192	None	None	\$57,100
13-1071 Human Resources Specialists	1,193	1,252	59	4.9	Below Average Growth	59	290	349	None	None	\$56,330
13-1075 Labor Relations Specialists	78	76	-2	-2.6	Zero to Declining Growth	0	19	19	< 5 yrs	None	\$61,760
13-1081 Logisticians	259	275	16	6.2	Below Average Growth	16	36	52	None	None	\$60,730
 13-1111 Management Analysts	660	791	131	19.8	Avg to Near Avg Growth	131	91	222	< 5 yrs	None	\$69,750

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## Bachelor's degree

	2014 Estimate	2024 Projection	Numeric Change	Percent Change	Job Growth Outlook	Growth Openings +	Replacement Openings =	Total Openings	Related Work Exp.	Typical OJT Training	Average 2015 Wages
13-1121 Meeting, Convention, and Event Planners	221	246	25	11.3	Avg to Near Avg Growth	25	26	51	None	None	\$45,010
13-1131 Fundraisers	184	214	30	16.3	Avg to Near Avg Growth	30	26	56	None	None	\$58,540
13-1141 Compensation, Benefits, and Job Analysis Specialists	123	139	16	13.0	Avg to Near Avg Growth	16	30	46	< 5 yrs	None	\$56,860
13-1151 Training and Development Specialists	556	646	90	16.2	Avg to Near Avg Growth	90	135	225	< 5 yrs	None	\$55,110
 13-1161 Market Research Analysts and Marketing Specialists	777	970	193	24.8	High Growth	193	93	286	None	None	\$55,310
 13-2011 Accountants and Auditors	4,183	4,830	647	15.5	Avg to Near Avg Growth	647	1,116	1,763	None	None	\$56,000
13-2021 Appraisers and Assessors of Real Estate	118	132	14	11.9	Avg to Near Avg Growth	14	19	33	None	LT	\$47,450
13-2031 Budget Analysts	115	116	1	0.9	Below Average Growth	1	29	30	None	None	\$63,670
 13-2041 Credit Analysts	180	219	39	21.7	High Growth	39	78	117	None	None	\$51,990
 13-2051 Financial Analysts	287	353	66	23.0	High Growth	66	59	125	None	None	\$74,230
 13-2052 Personal Financial Advisors	572	801	229	40.0	High Growth	229	144	373	None	LT	\$83,480
13-2053 Insurance Underwriters	289	305	16	5.5	Below Average Growth	16	55	71	None	MT	\$58,540
13-2061 Financial Examiners	133	158	25	18.8	Avg to Near Avg Growth	25	33	58	None	MT	\$75,230
13-2071 Credit Counselors	77	95	18	23.4	High Growth	18	13	31	None	MT	\$49,780
 13-2072 Loan Officers	1,118	1,374	256	22.9	High Growth	256	186	442	None	MT	\$70,220

 = indicates 'Bright Outlook' occupation

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## Bachelor's degree

2014 Estimate	2024 Projection	Numeric Change	Percent Change	Job Growth Outlook	Growth Openings +	Replacement Openings =	Total Openings	Related Work Exp.	Typical OJT Training	Average 2015 Wages
13-2081 Tax Examiners and Collectors, and Revenue Agents										
91	93	2	2.2	Below Average Growth	2	37	39	None	MT	\$60,960
13-2082 Tax Preparers										
148	163	15	10.1	Avg to Near Avg Growth	15	37	52	None	MT	\$54,060
15-1121 Computer Systems Analysts										
537	673	136	25.3	High Growth	136	69	205	None	None	N/A
15-1122 Information Security Analysts										
127	161	34	26.8	High Growth	34	16	50	< 5 yrs	None	\$67,930
15-1131 Computer Programmers										
493	483	-10	-2.0	Zero to Declining Growth	0	121	121	None	None	\$55,530
15-1132 Software Developers, Applications										
1,273	1,642	369	29.0	High Growth	369	182	551	None	None	\$72,720
15-1133 Software Developers, Systems Software										
381	475	94	24.7	High Growth	94	54	148	None	None	\$67,870
15-1141 Database Administrators										
158	188	30	19.0	Avg to Near Avg Growth	30	34	64	< 5 yrs	None	\$79,820
15-1142 Network and Computer Systems Administrators										
523	585	62	11.9	Avg to Near Avg Growth	62	67	129	None	None	\$68,110
15-1143 Computer Network Architects										
153	189	36	23.5	High Growth	36	20	56	>= 5 yrs	None	\$71,110
15-2031 Operations Research Analysts										
92	129	37	40.2	High Growth	37	16	53	None	None	\$75,380
17-1011 Architects, Except Landscape and Naval										
281	315	34	12.1	Avg to Near Avg Growth	34	46	80	None	IR	\$66,530
17-1012 Landscape Architects										
54	59	5	9.3	Below Average Growth	5	9	14	None	IR	\$55,680
17-1021 Cartographers and Photogrammetrists										
57	77	20	35.1	High Growth	20	18	38	None	None	\$57,480
17-1022 Surveyors										
402	419	17	4.2	Below Average Growth	17	125	142	< 5 yrs	None	\$63,400

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## Bachelor's degree

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17-2021 Agricultural Engineers										
21	22	1	4.8	Below Average Growth	1	4	5	None	None	\$77,830
17-2041 Chemical Engineers										
19	22	3	15.8	Avg to Near Avg Growth	3	5	8	None	None	\$98,990
17-2051 Civil Engineers										
1,105	1,283	178	16.1	Avg to Near Avg Growth	178	326	504	None	None	\$74,260
17-2071 Electrical Engineers										
402	459	57	14.2	Avg to Near Avg Growth	57	89	146	None	None	\$88,320
17-2072 Electronics Engineers, Except Computer										
119	132	13	10.9	Avg to Near Avg Growth	13	26	39	None	None	\$69,730
17-2081 Environmental Engineers										
164	181	17	10.4	Avg to Near Avg Growth	17	46	63	None	None	\$78,710
17-2111 Health and Safety Engineers, Except Mining Safety Engineers and Inspectors										
57	56	-1	-1.8	Zero to Declining Growth	0	17	17	None	None	\$75,190
17-2112 Industrial Engineers										
394	442	48	12.2	Avg to Near Avg Growth	48	116	164	None	None	\$77,330
17-2131 Materials Engineers										
28	35	7	25.0	High Growth	7	10	17	None	None	\$78,330
17-2141 Mechanical Engineers										
506	548	42	8.3	Below Average Growth	42	160	202	None	None	\$74,950
17-2151 Mining and Geological Engineers, Including Mining Safety Engineers										
124	109	-15	-12.1	Zero to Declining Growth	0	33	33	None	None	\$96,420
17-2171 Petroleum Engineers										
177	160	-17	-9.6	Zero to Declining Growth	0	48	48	None	None	\$125,040
19-1012 Food Scientists and Technologists										
56	57	1	1.8	Below Average Growth	1	19	20	None	None	\$45,640
19-1013 Soil and Plant Scientists										
239	235	-4	-1.7	Zero to Declining Growth	0	83	83	None	None	\$73,040
19-1022 Microbiologists										
30	32	2	6.7	Below Average Growth	2	8	10	None	None	\$51,070

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## Bachelor's degree

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19-1023 Zoologists and Wildlife Biologists										
144	149	5	3.5	Below Average Growth	5	39	44	None	None	\$53,910
19-1031 Conservation Scientists										
277	308	31	11.2	Avg to Near Avg Growth	31	121	152	None	None	\$64,520
19-1032 Foresters										
37	43	6	16.2	Avg to Near Avg Growth	6	16	22	None	None	\$52,230
19-2031 Chemists										
122	126	4	3.3	Below Average Growth	4	27	31	None	None	\$70,230
19-2041 Environmental Scientists and Specialists, Including Health										
307	324	17	5.5	Below Average Growth	17	94	111	None	None	\$60,840
19-2042 Geoscientists, Except Hydrologists and Geographers										
56	61	5	8.9	Below Average Growth	5	17	22	None	None	\$66,620
19-2043 Hydrologists										
32	33	1	3.1	Below Average Growth	1	10	11	None	None	\$77,800
19-4061 Social Science Research Assistants										
25	29	4	16.0	Avg to Near Avg Growth	4	10	14	None	None	\$42,760
19-4092 Forensic Science Technicians										
19	24	5	26.3	High Growth	5	8	13	None	MT	\$42,140
21-1011 Substance Abuse and Behavioral Disorder Counselors										
316	367	51	16.1	Avg to Near Avg Growth	51	66	117	None	None	\$51,490
21-1021 Child, Family, and School Social Workers										
712	824	112	15.7	Avg to Near Avg Growth	112	172	284	None	None	\$50,040
21-1023 Mental Health and Substance Abuse Social Workers										
318	372	54	17.0	Avg to Near Avg Growth	54	77	131	None	None	\$46,690
21-1091 Health Educators										
375	423	48	12.8	Avg to Near Avg Growth	48	74	122	None	None	\$51,190
21-1092 Probation Officers and Correctional Treatment Specialists										
167	180	13	7.8	Below Average Growth	13	33	46	None	ST	\$52,850
21-2021 Directors, Religious Activities and Education										
296	316	20	6.8	Below Average Growth	20	80	100	< 5 yrs	None	\$48,620

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## Bachelor's degree

2014 Estimate	2024 Projection	Numeric Change	Percent Change	Job Growth Outlook	Growth Openings +	Replacement Openings =	Total Openings	Related Work Exp.	Typical OJT Training	Average 2015 Wages	
25-1191 Graduate Teaching Assistants											
1,547	1,645	98	6.3	Below Average Growth	98	274	372	None	None	N/A	
25-1194 Vocational Education Teachers, Postsecondary											
90	100	10	11.1	Avg to Near Avg Growth	10	16	26	< 5 yrs	None	\$47,360	
25-2012 Kindergarten Teachers, Except Special Education											
614	679	65	10.6	Avg to Near Avg Growth	65	180	245	None	IR	\$45,130	
25-2021 Elementary School Teachers, Except Special Education											
4,283	4,730	447	10.4	Avg to Near Avg Growth	447	947	1,394	None	IR	\$47,110	
25-2022 Middle School Teachers, Except Special and Career/Technical Education											
943	1,042	99	10.5	Avg to Near Avg Growth	99	209	308	None	IR	\$52,920	
25-2031 Secondary School Teachers, Except Special and Career/Technical Education											
2,481	2,743	262	10.6	Avg to Near Avg Growth	262	588	850	None	IR	\$48,410	
25-2032 Career/Technical Education Teachers, Secondary School											
374	392	18	4.8	Below Average Growth	18	89	107	< 5 yrs	IR	\$53,620	
25-2052 Special Education Teachers, Kindergarten and Elementary School											
679	749	70	10.3	Avg to Near Avg Growth	70	128	198	None	IR	\$51,430	
25-2053 Special Education Teachers, Middle School											
129	142	13	10.1	Avg to Near Avg Growth	13	24	37	None	IR	\$54,310	
25-2054 Special Education Teachers, Secondary School											
345	380	35	10.1	Avg to Near Avg Growth	35	65	100	None	IR	\$52,060	
25-3098 Substitute Teachers											
60	66	6	10.0	Avg to Near Avg Growth	6	11	17	None	IR	\$38,640	
25-4013 Museum Technicians and Conservators											
13	13	0	0.0	Zero to Declining Growth	0	4	4	None	None	\$47,850	
25-9021 Farm and Home Management Advisors											
210	232	22	10.5	Avg to Near Avg Growth	22	20	42	None	None	\$58,070	
27-1011 Art Directors											
71	71	0	0.0	Zero to Declining Growth	0	13	13	>= 5 yrs	None	\$63,680	
27-1014 Multimedia Artists and Animators											
45	45	0	0.0	Zero to Declining Growth	0	8	8	None	MT	\$52,950	

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## Bachelor's degree

2014 Estimate	2024 Projection	Numeric Change	Percent Change	Job Growth Outlook	Growth Openings +	Replacement Openings =	Total Openings	Related Work Exp.	Typical OJT Training	Average 2015 Wages
27-1021 Commercial and Industrial Designers										
35	37	2	5.7	Below Average Growth	2	8	10	None	None	\$40,940
27-1024 Graphic Designers										
717	716	-1	-0.1	Zero to Declining Growth	0	171	171	None	None	\$37,780
27-1025 Interior Designers										
111	122	11	9.9	Below Average Growth	11	26	37	None	None	\$45,150
27-2012 Producers and Directors										
202	213	11	5.4	Below Average Growth	11	65	76	< 5 yrs	None	\$40,710
27-2041 Music Directors and Composers										
179	192	13	7.3	Below Average Growth	13	52	65	< 5 yrs	None	N/A
27-3022 Reporters and Correspondents										
270	253	-17	-6.3	Zero to Declining Growth	0	87	87	None	None	\$24,290
27-3031 Public Relations Specialists										
599	660	61	10.2	Avg to Near Avg Growth	61	71	132	None	None	\$53,950
27-3041 Editors										
233	201	-32	-13.7	Zero to Declining Growth	0	84	84	< 5 yrs	None	\$35,230
27-3042 Technical Writers										
101	121	20	19.8	Avg to Near Avg Growth	20	23	43	< 5 yrs	ST	\$64,890
27-3043 Writers and Authors										
318	334	16	5.0	Below Average Growth	16	53	69	None	MT	\$43,660
27-4032 Film and Video Editors										
58	82	24	41.4	High Growth	24	5	29	None	None	\$67,850
29-1031 Dietitians and Nutritionists										
212	253	41	19.3	Avg to Near Avg Growth	41	16	57	None	IR	\$53,000
29-1125 Recreational Therapists										
84	103	19	22.6	High Growth	19	20	39	None	None	\$38,290
29-1128 Exercise Physiologists										
19	22	3	15.8	Avg to Near Avg Growth	3	2	5	None	None	\$41,790
29-1141 Registered Nurses										
8,392	10,442	2,050	24.4	High Growth	2,050	1,980	4,030	None	None	\$58,890

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## Bachelor's degree

	2014 Estimate	2024 Projection	Numeric Change	Percent Change	Job Growth Outlook	Growth Openings +	Replacement Openings =	Total Openings	Related Work Exp.	Typical OJT Training	Average 2015 Wages
 29-2011 Medical and Clinical Laboratory Technologists	655	821	166	25.3	High Growth	166	157	323	None	None	\$54,080
29-9011 Occupational Health and Safety Specialists	421	392	-29	-6.9	Zero to Declining Growth	0	84	84	None	None	\$82,540
29-9091 Athletic Trainers	55	65	10	18.2	Avg to Near Avg Growth	10	11	21	None	None	\$38,310
 41-3031 Securities, Commodities, and Financial Services Sales Agents	449	549	100	22.3	High Growth	100	77	177	None	MT	\$95,310
41-4011 Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	849	847	-2	-0.2	Zero to Declining Growth	0	175	175	None	MT	\$85,420
41-9031 Sales Engineers	69	88	19	27.5	High Growth	19	18	37	None	MT	\$104,700
43-9081 Proofreaders and Copy Markers	41	41	0	0.0	Zero to Declining Growth	0	8	8	None	None	\$27,410
43-9111 Statistical Assistants	115	107	-8	-7.0	Zero to Declining Growth	0	46	46	None	None	\$38,880
45-2011 Agricultural Inspectors	260	283	23	8.8	Below Average Growth	23	66	89	None	MT	\$35,860

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## Master's degree

2014 Estimate	2024 Projection	Numeric Change	Percent Change	Job Growth Outlook	Growth Openings +	Replacement Openings =	Total Openings	Related Work Exp.	Typical OJT Training	Average 2015 Wages
11-9032 Education Administrators, Elementary and Secondary School										
499	551	52	10.4	Avg to Near Avg Growth	52	145	197	>= 5 yrs	None	\$85,740
11-9033 Education Administrators, Postsecondary										
450	488	38	8.4	Below Average Growth	38	131	169	>= 5 yrs	None	\$116,090
19-1041 Epidemiologists										
21	22	1	4.8	Below Average Growth	1	7	8	None	None	\$49,730
19-3051 Urban and Regional Planners										
86	96	10	11.6	Avg to Near Avg Growth	10	16	26	None	None	\$55,680
19-3091 Anthropologists and Archeologists										
101	120	19	18.8	Avg to Near Avg Growth	19	12	31	None	None	\$40,850
21-1012 Educational, Guidance, School, and Vocational Counselors										
701	782	81	11.6	Avg to Near Avg Growth	81	147	228	None	None	\$55,250
21-1013 Marriage and Family Therapists										
177	219	42	23.7	High Growth	42	37	79	None	IR	\$46,080
21-1014 Mental Health Counselors										
84	103	19	22.6	High Growth	19	18	37	None	IR	\$44,460
21-1015 Rehabilitation Counselors										
231	273	42	18.2	Avg to Near Avg Growth	42	48	90	None	None	\$43,060
21-1022 Healthcare Social Workers										
362	428	66	18.2	Avg to Near Avg Growth	66	87	153	None	None	\$47,920
21-2011 Clergy										
1,249	1,344	95	7.6	Below Average Growth	95	269	364	None	MT	\$52,270
25-1072 Nursing Instructors and Teachers, Postsecondary										
165	199	34	20.6	High Growth	34	29	63	< 5 yrs	None	\$75,280
25-1121 Art, Drama, and Music Teachers, Postsecondary										
161	177	16	9.9	Below Average Growth	16	28	44	None	None	\$66,110
25-1193 Recreation and Fitness Studies Teachers, Postsecondary										
27	29	2	7.4	Below Average Growth	2	5	7	None	None	\$53,910
25-4011 Archivists										
21	24	3	14.3	Avg to Near Avg Growth	3	7	10	None	None	\$43,960

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## Master's degree

	2014 Estimate	2024 Projection	Numeric Change	Percent Change	Job Growth Outlook	Growth Openings	+ Replacement Openings	= Total Openings	Related Work Exp.	Typical OJT Training	Average 2015 Wages
25-4012 Curators	42	45	3	7.1	Below Average Growth	3	13	16	None	None	\$40,780
25-4021 Librarians	468	496	28	6.0	Below Average Growth	28	88	116	None	None	\$46,730
25-9031 Instructional Coordinators	291	319	28	9.6	Below Average Growth	28	28	56	>= 5 yrs	None	\$64,980
 29-1071 Physician Assistants	296	387	91	30.7	High Growth	91	66	157	None	None	\$111,940
 29-1122 Occupational Therapists	410	531	121	29.5	High Growth	121	79	200	None	None	\$65,110
 29-1123 Physical Therapists	552	725	173	31.3	High Growth	173	148	321	None	None	\$73,310
 29-1127 Speech-Language Pathologists	580	710	130	22.4	High Growth	130	146	276	None	None	\$65,040
29-1151 Nurse Anesthetists	164	195	31	18.9	Avg to Near Avg Growth	31	39	70	None	None	\$178,720
29-1161 Nurse Midwives	25	32	7	28.0	High Growth	7	6	13	None	None	\$119,170
 29-1171 Nurse Practitioners	445	623	178	40.0	High Growth	178	105	283	None	None	\$92,750

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## Doctoral or professional degree

2014 Estimate	2024 Projection	Numeric Change	Percent Change	Job Growth Outlook	Growth Openings	+ Replacement Openings	= Total Openings	Related Work Exp.	Typical OJT Training	Average 2015 Wages
19-1042 Medical Scientists, Except Epidemiologists										
27	33	6	22.2	High Growth	6	8	14	None	None	\$80,530
19-2012 Physicists										
35	40	5	14.3	Avg to Near Avg Growth	5	7	12	None	None	\$106,010
19-3031 Clinical, Counseling, and School Psychologists										
313	391	78	24.9	High Growth	78	67	145	None	IR	\$79,910
23-1011 Lawyers										
1,736	1,788	52	3.0	Below Average Growth	52	254	306	None	None	\$101,840
23-1012 Judicial Law Clerks										
40	40	0	0.0	Zero to Declining Growth	0	9	9	None	None	\$68,230
23-1023 Judges, Magistrate Judges, and Magistrates										
87	92	5	5.7	Below Average Growth	5	13	18	>= 5 yrs	ST	\$132,520
25-1011 Business Teachers, Postsecondary										
212	230	18	8.5	Below Average Growth	18	38	56	None	None	\$108,560
25-1021 Computer Science Teachers, Postsecondary										
73	79	6	8.2	Below Average Growth	6	13	19	None	None	\$77,860
25-1022 Mathematical Science Teachers, Postsecondary										
127	146	19	15.0	Avg to Near Avg Growth	19	22	41	None	None	\$69,870
25-1042 Biological Science Teachers, Postsecondary										
246	282	36	14.6	Avg to Near Avg Growth	36	44	80	None	None	\$114,480
25-1043 Forestry and Conservation Science Teachers, Postsecondary										
13	14	1	7.7	Below Average Growth	1	2	3	None	None	\$82,010
25-1051 Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary										
103	111	8	7.8	Below Average Growth	8	18	26	None	None	\$85,360
25-1052 Chemistry Teachers, Postsecondary										
57	65	8	14.0	Avg to Near Avg Growth	8	10	18	None	None	\$97,890
25-1062 Area, Ethnic, and Cultural Studies Teachers, Postsecondary										
14	16	2	14.3	Avg to Near Avg Growth	2	2	4	None	None	\$86,700
25-1063 Economics Teachers, Postsecondary										
61	66	5	8.2	Below Average Growth	5	11	16	None	None	\$110,050

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## Doctoral or professional degree

2014 Estimate	2024 Projection	Numeric Change	Percent Change	Job Growth Outlook	Growth Openings +	Replacement Openings =	Total Openings	Related Work Exp.	Typical OJT Training	Average 2015 Wages	
25-1064	Geography Teachers, Postsecondary										
10	11	1	10.0	Avg to Near Avg Growth	1	2	3	None	None	\$83,030	
25-1065	Political Science Teachers, Postsecondary										
14	15	1	7.1	Below Average Growth	1	2	3	None	None	\$73,470	
25-1066	Psychology Teachers, Postsecondary										
57	65	8	14.0	Avg to Near Avg Growth	8	10	18	None	None	\$78,030	
25-1067	Sociology Teachers, Postsecondary										
37	42	5	13.5	Avg to Near Avg Growth	5	7	12	None	None	\$77,000	
25-1071	Health Specialties Teachers, Postsecondary										
137	163	26	19.0	Avg to Near Avg Growth	26	24	50	< 5 yrs	None	\$101,450	
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary										
30	36	6	20.0	High Growth	6	5	11	None	None	\$69,670	
25-1113	Social Work Teachers, Postsecondary										
47	53	6	12.8	Avg to Near Avg Growth	6	8	14	None	None	\$81,860	
25-1122	Communications Teachers, Postsecondary										
79	86	7	8.9	Below Average Growth	7	14	21	None	None	\$62,260	
25-1123	English Language and Literature Teachers, Postsecondary										
116	126	10	8.6	Below Average Growth	10	21	31	None	None	\$63,720	
25-1124	Foreign Language and Literature Teachers, Postsecondary										
58	62	4	6.9	Below Average Growth	4	10	14	None	None	\$65,360	
25-1125	History Teachers, Postsecondary										
39	43	4	10.3	Avg to Near Avg Growth	4	7	11	None	None	\$79,010	
29-1011	Chiropractors										
310	366	56	18.1	Avg to Near Avg Growth	56	56	112	None	None	\$69,310	
29-1021	Dentists, General										
253	302	49	19.4	Avg to Near Avg Growth	49	52	101	None	None	\$214,450	
29-1041	Optometrists										
164	211	47	28.7	High Growth	47	58	105	None	None	\$125,120	
29-1051	Pharmacists										
758	819	61	8.0	Below Average Growth	61	177	238	None	None	\$112,110	

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## Doctoral or professional degree

	2014 Estimate	2024 Projection	Numeric Change	Percent Change	Job Growth Outlook	Growth Openings	+ Replacement Openings	= Total Openings	Related Work Exp.	Typical OJT Training	Average 2015 Wages
 29-1061 Anesthesiologists	266	328	62	23.3	High Growth	62	72	134	None	IR	\$283,200
29-1062 Family and General Practitioners	418	451	33	7.9	Below Average Growth	33	113	146	None	IR	\$191,930
29-1063 Internists, General	23	25	2	8.7	Below Average Growth	2	6	8	None	IR	\$255,130
29-1064 Obstetricians and Gynecologists	42	50	8	19.0	Avg to Near Avg Growth	8	11	19	None	IR	\$257,410
29-1066 Psychiatrists	81	97	16	19.8	Avg to Near Avg Growth	16	22	38	None	IR	\$214,010
29-1081 Podiatrists	12	14	2	16.7	Avg to Near Avg Growth	2	2	4	None	IR	\$159,750
29-1131 Veterinarians	222	249	27	12.2	Avg to Near Avg Growth	27	34	61	None	None	\$85,310
29-1181 Audiologists	31	41	10	32.3	High Growth	10	7	17	None	None	\$97,800

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