



Arkansas-Statewide

Short-Term Industry and
Occupational Projections

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2022
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ARKANSAS SHORT-TERM INDUSTRY AND OCCUPATIONAL PROJECTIONS 2020-2022



Arkansas Division of
Workforce Services

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State of Arkansas

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ARKANSAS SHORT-TERM INDUSTRY AND OCCUPATIONAL PROJECTIONS 2020-2022

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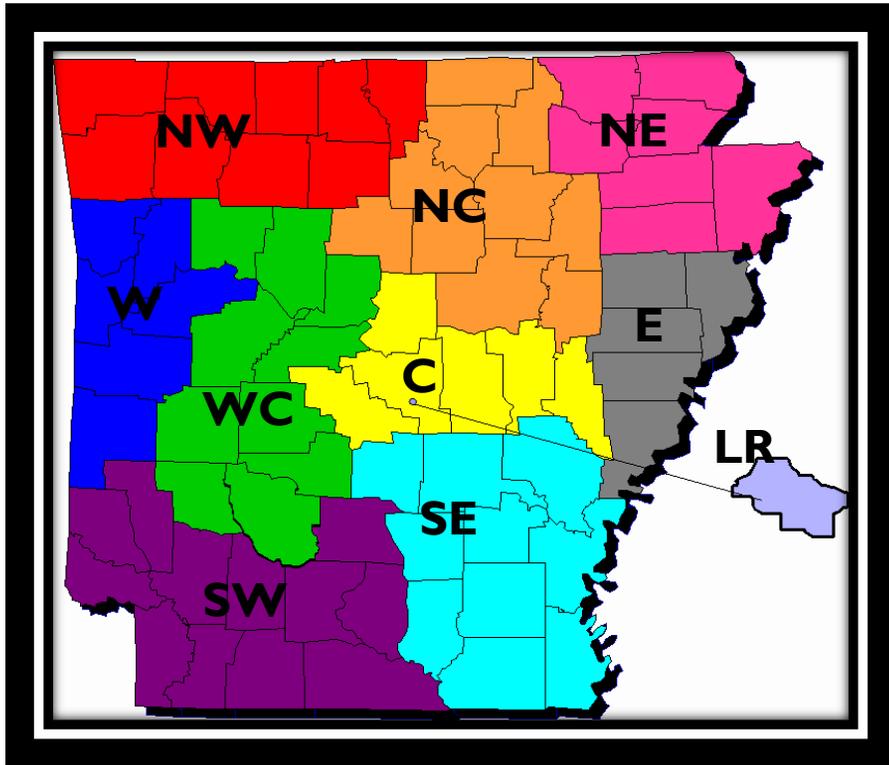
Definitions of Important Terms

Term	Definition
Estimated Employment	The average number of jobs in a particular industry or occupation during the benchmark year or quarter.
Content Skills	Learned capabilities that allow workers to master and perform the specific activities of their jobs.
Current Employment Statistics (CES)	A monthly survey of business establishments that provides estimates of employment, hours, and earnings data by industry for the nation, all states, and most major metropolitan areas.
Employment	The number of jobs in a business or firm at any given time.
Fastest Growing/Declining	Refers to percent growth. The higher the percent growth, the faster an industry or occupation is growing. For declining industries or occupations, the lower the percent growth, the faster it is declining.
Generalized Work Activities	Learned sets of facts and standards required by many work situations.
Industry	A group of establishments that produce similar products or provide similar services.
Knowledge Domain	Learned sets of facts and standards required by many work situations.
Metropolitan Statistical Area	A county or group of contiguous counties that contains an urban center of at least 50,000 residents and has a high degree of economic and social ties.
Numeric Change	The difference between projected employment and base employment.
North American Industry Classification System (NAICS)	A system used in assigning industry-designated code numbers to employers and/or establishments based on the nature of their activities, services rendered, or products delivered; established by the U.S. Office of Management and Budget and used by all agencies for data compilation.
Occupation	A set of activities that employees are paid to perform; employees who perform the same tasks are in the same occupation, whether or not they are in the same industry.
Occupational Employment Statistics (OES)	A federal/state cooperative program that produces employment and wage estimates for over 700 occupations. These are estimates of the number of people employed in certain occupations and estimates of the wages paid to them. They are also used to gather occupational staffing patterns by industry that are used to project employment needs by occupation.
Percent (%) Change	The rate at which an industry or occupation is expected to grow or decline.
Projected Employment	The average number of jobs expected to be in an industry or occupation in the future.
Quarterly Census of Employment and Wage (QCEW)	A federal/state cooperative program that produces employment and wage data for workers covered by state unemployment insurance laws and federal workers covered by the Unemployment Compensation for Federal Employees Program. Data is arranged by the type of industry according to the North American Industry Classification System (NAICS).
Sector	A level of industry classification under supersector according to the NAICS structure.
Standard Occupational Classification (SOC)	A coding system used by all federal statistical agencies to classify workers into occupational categories for the purpose of collecting, calculating, or disseminating data.
Subsector	A level of industry classification under sector according to the NAICS structure.
Supersector	The top level of industry classification according to the NAICS structure.

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Local Workforce Development Areas



Northwest Arkansas Workforce Development Area

Baxter, Benton, Boone, Carroll, Madison, Marion, Newton, Searcy, and Washington Counties

North Central Arkansas Workforce Development Area

Cleburne, Fulton, Independence, Izard, Jackson, Sharp, Stone, Van Buren, White, and Woodruff Counties

Northeast Arkansas Workforce Development Area

Clay, Craighead, Greene, Lawrence, Mississippi, Poinsett, and Randolph Counties

Western Arkansas Workforce Development Area

Crawford, Franklin, Logan, Polk, Scott, and Sebastian Counties

West Central Arkansas Workforce Development Area

Clark, Conway, Garland, Hot Spring, Johnson, Montgomery, Perry, Pike, Pope, and Yell Counties

Southwest Arkansas Workforce Development Area

Calhoun, Columbia, Dallas, Hempstead, Howard, Lafayette, Little River, Miller, Nevada, Ouachita, Sevier, and Union Counties

Southeast Arkansas Workforce Development Area

Arkansas, Ashley, Bradley, Chicot, Cleveland, Desha, Drew, Grant, Jefferson, and Lincoln Counties

Central Arkansas Workforce Development Area

Faulkner, Lonoke, Monroe, Prairie, Pulaski outside the city limits of Little Rock, and Saline Counties

City of Little Rock Workforce Development Area

Inside the city limits of Little Rock

Eastern Arkansas Workforce Development Area

Crittenden, Cross, Lee, Phillips, and St. Francis Counties

Introduction

The *Arkansas Short-Term Industry and Occupational Projections* publication includes an overview of where the Arkansas labor market may be heading in the near future. It contains information on the growth and decline of industries and occupations.

Industries in this publication are classified by North American Industry Classification System (NAICS) codes. NAICS was created to bring consistency and comparability to the classification of industries and businesses across the United States, Canada, and Mexico.

This publication is divided into two main parts. The first part of the publication involves the industry projections. Several tables and graphs are used to show what is happening at the industry level in Arkansas. A written narrative highlights projections at the division level, as well as key industries within that division.

The second part of this publication involves occupational projections. Several tables and graphs are used to show what is happening at the occupational level in Arkansas. A written narrative highlights projections at the division level, as well as key occupations within that division. Occupations are classified by Standard Occupational Classification (SOC) codes.

Information about annual job openings are included in this publication. Based on new Bureau of Labor Statistics (BLS) methodology, job openings are classified in three categories: Occupational Exits, Occupational Transfers, and Occupational Growth. It is important to look at all of these components when looking at specific occupations or occupational groups.

For each occupation, an education/training level is provided. Educational requirements are determined by the Bureau of Labor Statistics and recognize the educational attainment of most people in a particular occupation. Each occupation will have three categories: Education, Work Experience, and Training. Some businesses, however, may require a higher level of training. Some occupations may also have different grades or levels that require different levels of training. These various levels of training will not be reflected in this publication.

Many more projections-related information can be found on my Tableau pages. Go to the following website <https://public.tableau.com/profile/brian.pulliam#!/> to view tables and graphics related to business, education, and other industry and occupational outlook information.

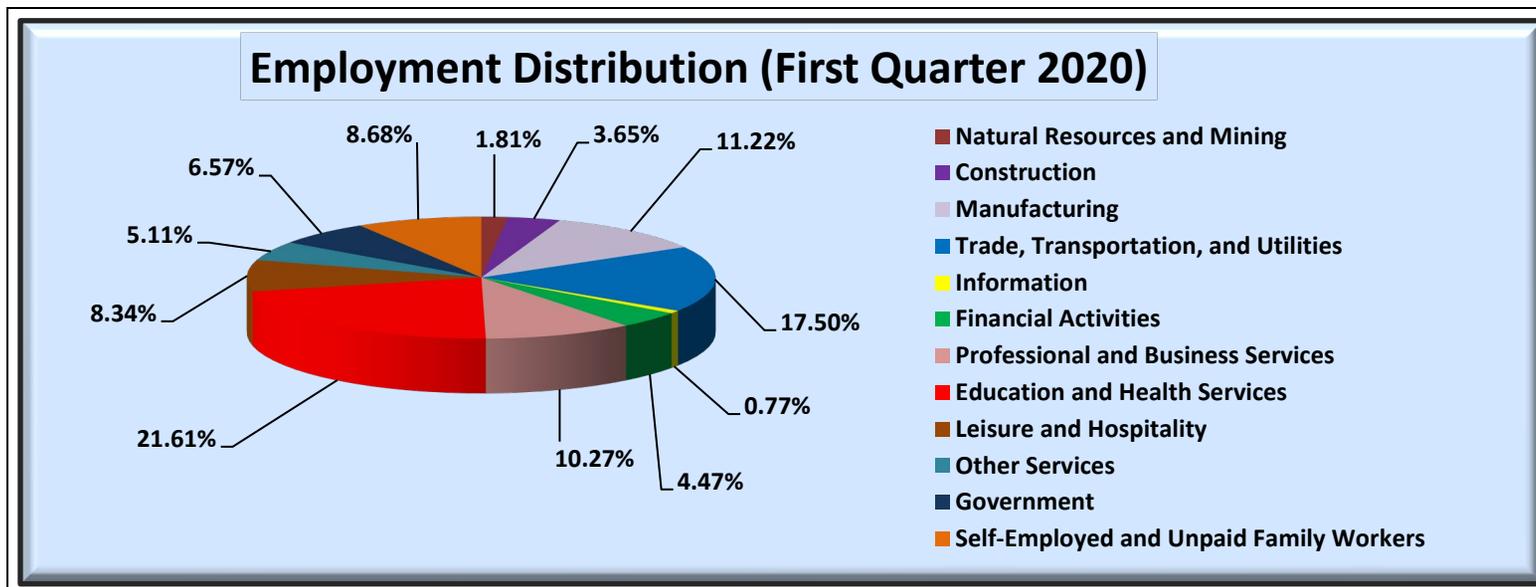
State of Arkansas Profile

Arkansas has 75 counties and 10 Local Workforce Development Areas. There are also six Metropolitan Statistical Areas (MSAs). The MSAs are Little Rock/North Little Rock/Conway; Fayetteville/Springdale/Rogers (which includes McDonald County in Missouri); Pine Bluff; Hot Springs; Jonesboro; and Fort Smith (which includes Leflore and Sequoyah Counties in Oklahoma). Parts of two other MSAs are in the state but are based in other states. Crittenden County is part of the Memphis/West Memphis MSA, which is based in Tennessee, and Miller County is part of the Texarkana AR/TX MSA, which is based in Texas.

Arkansas is rich in natural resources. There are many historical landmarks and state parks scattered throughout the state. This is one of the reasons Arkansas is called the Natural State.

Educational opportunities in the state of Arkansas are numerous. Prospective students have a wide range of institutions to choose from, ranging from two-year community and technical colleges to four-year universities. Students can also choose between public/state institutions and private or religious-based institutions. These schools offer a variety of programs, ranging from technical certificates and Associate's Degrees to graduate degrees. Arkansas also has several small institutions that focus on specific types of careers. With all these educational opportunities, an array of occupational careers is waiting for students.

Arkansas' population, based on United States Census Bureau data estimates, was 3,030,522 as of July 1, 2020, an increase of 9,537 residents from the July 1, 2019 estimate of 3,020,985. The not-seasonally adjusted average unemployment rate for first quarter 2020 was 4.1 percent, while the seasonally adjusted number was 3.8 percent.



Methodology

The following is a brief overview of the methods used to produce short-term employment projections in Arkansas.

Data Development

Data development is accomplished by using the following sources:

The Quarterly Census of Employment and Wages (QCEW) program. This source provides all the covered employment for Arkansas. A firm or business is considered covered if it meets the guidelines established under the Unemployment Insurance Law.

The Current Employment Statistics (CES) Survey. This source provides employment information for non-covered establishments, which are railroads, the Federal Work Study program, churches, religious-based schools, elected officials, commissioned insurance agents, as well as other establishments not reporting to the *Quarterly Census of Employment and Wages (QCEW)* program.

Agriculture employment. This is obtained from the Census of Agriculture. The Census of Agriculture is taken every five years in years ending in two and seven. Information from the QCEW reports are used to make estimates for years following the Census year until the next Census. Other information from the Bureau of Economic Analysis (BEA) is used to supplement agriculture employment.

Other Non-Covered Employment. Data on other agriculture employment, specifically NAICS 113, 114, and 115, as well as private households, are supplemented using data from the Bureau of Economic Analysis.

Industry Projections

A monthly time series is developed at the three- and four-digit NAICS levels from the three sources listed above, with a time period of January 1990 to March of the base year 2020. The industry projections in this publication were produced using the *Projections Suite* software, authorized by the U.S. Department of Labor, and developed by the Utah Department of Workforce Services. The software has several components that deal with industry projections. First, it allows the analyst to choose from a list of national and state variables to determine a state leading index, which is a list of variables that, when factored together, help predict changes in the state employment figures. National economic variables are also provided. State variables are labor force data, such as civilian labor force and unemployment rate, major industry division (CES) totals, nonfarm employment, building permits, manufacturing hours, natural gas prices, air passenger data, and a composite index.

The software uses a series of statistical models to forecast employment through eight quarters. Using trend and seasonal factors, as well as business cycle patterns, a forecast is chosen based on established statistical methodology. Projections are adjusted to reflect current or near-future events in the labor market, such as closures, layoffs, openings, and expansions.

Occupational Projections

Occupational projections are produced by merging industries and occupations together into an industry-occupational matrix. This matrix is a table showing the occupational pattern of each industry (i.e., the ratios of employment by occupation in a specific industry). The statewide matrix is based on the Bureau of Labor Statistics' Occupational Employment Statistics (OES) survey and uses a Standard Occupational Classification (SOC) code for each occupation. It uses the May 2019 OES semiannual survey to establish state staffing patterns and is provided through the Local Employment and Wage Information System (LEWIS). National staffing patterns are used where state patterns do not exist.

The occupational employment projections contained in this publication were created using the *Projections Suite* software, authorized by the U.S. Department of Labor, and developed by the Utah Department of Workforce Services. The software applies occupational change factors to the projected patterns to form a projected matrix. Also, using national self-employment staffing patterns, the system generates base and projected employment for self-employed workers. Patterns and projections for Unpaid Family Workers are based on Census numbers.

Data Limitations

The projections contained in this publication are estimates based on historical data. It is important not to rely on these projections as the actual employment numbers that will occur in 2022. While every attempt is made to incorporate current and near-future events, such as business closings, corporate layoffs, openings, and expansions, it's not possible to know everything that might happen. Events that may take place after the projection period or announcements concerning closings, layoffs, openings, and expansions known after projections were completed are not reflected in the forecasts. Also, legislative policy could cause employment to change. Events such as these will likely cause the actual employment numbers to vary significantly from these projections.

It is important to look at both numeric growth and percent growth when looking at projections. Generally, industries or occupations with small employment will have higher growth rates than those with larger employment, but these industries may only add a few employees over the projection period. When examining occupational projections, it is important to look at all types of job openings, which include growth, exits, and transfers. Even if an occupation is in decline, it still may have openings to replace workers who leave the profession due to changing jobs or due to a person retiring or leaving the workforce for some other reason.

COVID Effects

With the base employment being in first quarter 2020, the economic and job-loss effects of the COVID-19 pandemic were not included in the historical series. The job loss is generally thought to have occurred in the second quarter 2020 with recovery beginning in the third quarter. Based on available numbers from second and third quarter 2020, adjustments were made to the projections to account for the job loss and recovery. Keep in mind that these adjustments are estimates and intended to gauge the recovery of the job market up to the projection quarter of first quarter 2022.

EXPLANATION OF INDUSTRY PROJECTIONS DATA
 ARKANSAS-STATEWIDE
 2020-2022

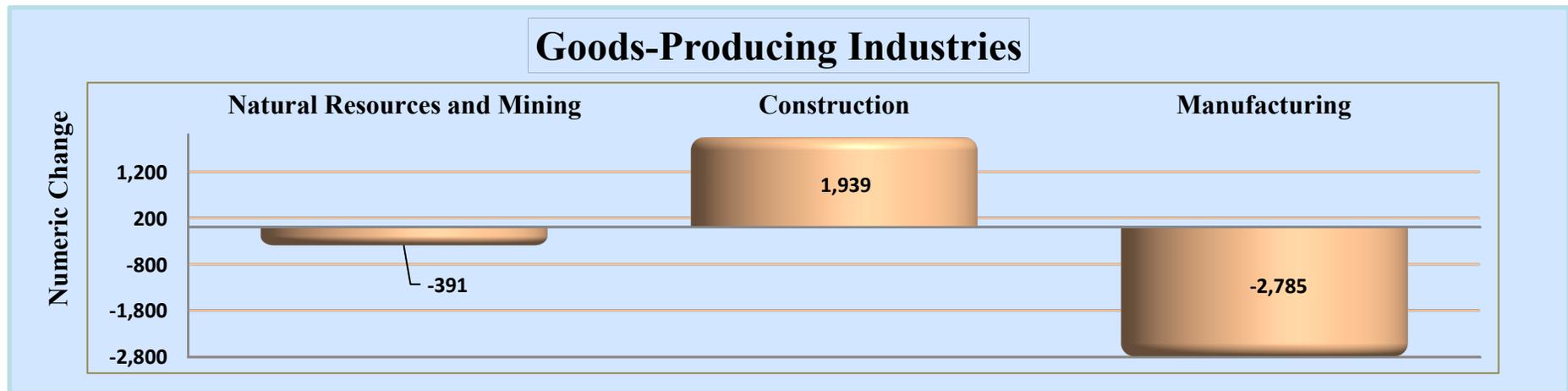
NAICS Code	NAICS Title	2020 Estimated Employment	2022 Projected Employment	Net Growth	Percent Growth
Industry code according to the North American Industry Classification System (NAICS) Title and Coding Structure	Industry title according to the North American Industry Classification System (NAICS) Title and Coding Structure	An estimate of the number of jobs in an industry in 2020	The projected number of jobs expected to be in an industry in 2022	Total number of jobs an industry is expected to gain or lose over the 2020 to 2022 period	Percent change in the number of jobs in an industry over the 2020 to 2022 period

2020-2022 Arkansas Statewide Industry Projections by Major Division

NAICS Code	NAICS Title	2020 Estimated Employment	2022 Projected Employment	Numeric Change	Percent Change
000000	TOTAL ALL INDUSTRIES	1,431,344	1,420,248	-11,096	-0.78%
000671	Total Self Employed and Unpaid Family Workers, All Jobs	124,201	121,845	-2,356	-1.90%
006010	Self Employed Workers, All Jobs	117,329	115,227	-2,102	-1.79%
007010	Unpaid Family Workers, All Jobs	6,872	6,618	-254	-3.70%
101000	Goods Producing	238,719	237,482	-1,237	-0.52%
101100	NATURAL RESOURCES AND MINING	25,890	25,499	-391	-1.51%
110000	Agriculture, Forestry, Fishing and Hunting	22,303	22,157	-146	-0.65%
210000	Mining	3,587	3,342	-245	-6.83%
101200	CONSTRUCTION	52,189	54,128	1,939	3.72%
101300	MANUFACTURING	160,640	157,855	-2,785	-1.73%
	Non-Durable Goods Manufacturing	84,397	84,143	-254	-0.30%
	Durable Goods Manufacturing	76,243	73,712	-2,531	-3.32%
102000	Services Providing	1,068,424	1,061,591	-6,833	-0.64%
102100	TRADE, TRANSPORTATION, AND UTILITIES	250,517	249,015	-1,502	-0.60%
220000	Utilities	7,880	7,938	58	0.74%
420000	Wholesale Trade	47,294	49,096	1,802	3.81%
440000	Retail Trade	135,330	133,168	-2,162	-1.60%
480000	Transportation and Warehousing	60,013	58,813	-1,200	-2.00%
102200	INFORMATION	11,078	9,826	-1,252	-11.30%
102300	FINANCIAL ACTIVITIES	63,976	65,637	1,661	2.60%
520000	Finance and Insurance	50,274	51,759	1,485	2.95%
530000	Real Estate and Rental and Leasing	13,702	13,878	176	1.28%
102400	PROFESSIONAL AND BUSINESS SERVICES	147,025	147,971	946	0.64%
540000	Professional, Scientific, and Technical Services	45,425	46,906	1,481	3.26%
550000	Management of Companies and Enterprises	34,485	34,951	466	1.35%
560000	Administrative and Support and Waste Management and Remediation Services	67,115	66,114	-1,001	-1.49%
102500	EDUCATION AND HEALTH SERVICES	309,291	310,907	1,616	0.52%
610000	Educational Services	116,343	116,914	571	0.49%
620000	Health Care and Social Assistance	192,948	193,993	1,045	0.54%
102600	LEISURE AND HOSPITALITY	119,392	108,400	-10,992	-9.21%
710000	Arts, Entertainment, and Recreation	11,577	11,050	-527	-4.55%
720000	Accommodation and Food Services	107,815	97,350	-10,465	-9.71%
102700	OTHER SERVICES (EXCEPT GOVERNMENT)	73,132	74,349	1,217	1.66%
102800	GOVERNMENT	94,013	94,816	803	0.85%

Industry Outlook

Between first quarter 2019 and first quarter 2020, an increase of just 5,923 jobs was seen in the Arkansas economy, which translates to less than a 0.5 percent increase in jobs. This was right before the COVID-19 pandemic caused widespread job loss in the job market, causing more than 36,420 jobs to be lost. During the 2020-2022 projection period, the job market could lose 11,096 jobs, a 0.78 percent decline, which translates to a job recovery of 25,324, or 69.5 percent of pre-COVID employment. Goods-Producing industries are estimated to see a net loss of 1,237 jobs, while the Services-Providing industries are forecast to decrease employment by 6,833. Arkansas' self-employed and unpaid family workers ranks are also estimated to experience a net loss in the amount of 2,356, a decrease of 1.90 percent.



The **Natural Resources and Mining** supersector is projected to experience a net loss of 391 jobs, or 1.51 percent of its workforce. This industry group was minimally impacted by the pandemic, losing less than five percent of its employment. The **Agriculture, Forestry, Fishing, and Hunting** sector is estimated to lose 146 jobs. The greatest contributor of this loss is due to the non-covered job losses. Bureau of Economic Analysis estimates show a loss of nearly 300 farming jobs between 2017 and 2019. The industry sector gained during the pandemic. The **Mining** sector is projected to lose 245 jobs between 2020 and 2022. The sector lost 112 jobs during the pandemic. Most of the projected loss is in *Support Activities for Mining*, with a loss of 224, or 18.93 percent of its workforce, placing in the Top 20 Fastest Declining industries list.

Among Goods-Producing supersectors, **Construction** is slated to have the brightest outlook, with a gain of 1,939 jobs during the 2020-2022 projection period. The industry group experienced a job gain during the pandemic. *Specialty Trade Contractors* is estimated to gain 1,317, more than two-thirds of the overall **Construction** growth. Building Equipment Contractors is set to add 1,135 jobs during the projection period, placing third on the Top 20 Growing Industries list. Building Finishing Contractors could lose 21 jobs, or 0.57 percent of its workforce.

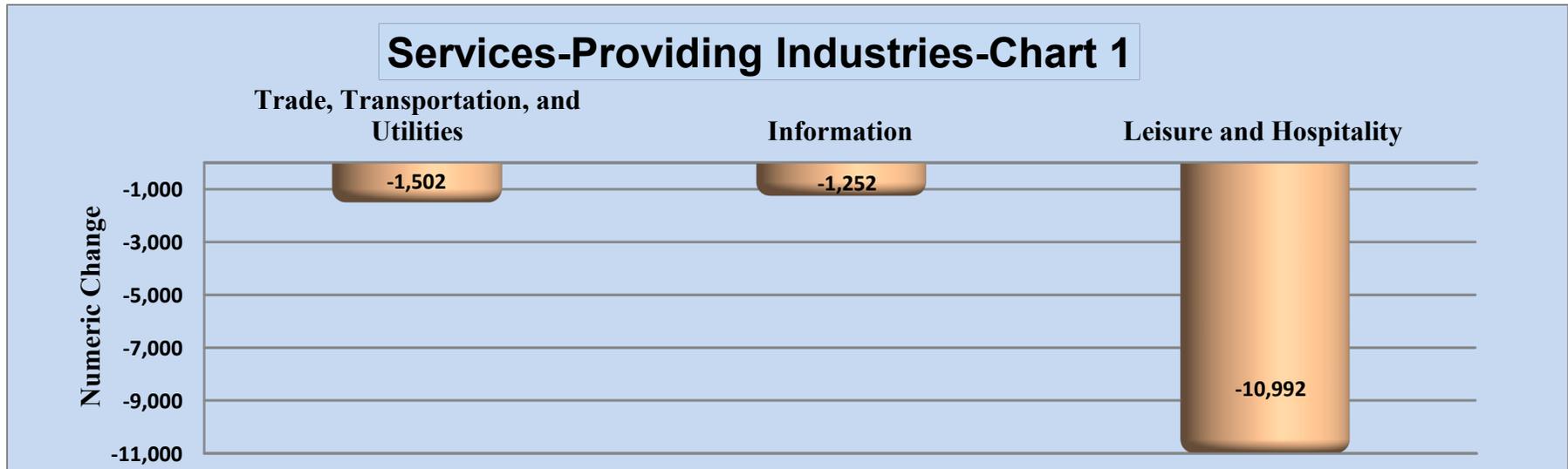


The **Manufacturing** supersector is predicted to experience a net loss of 2,785 jobs during the projection period. The industry group lost 9,733 jobs between first quarter 2020 and second quarter 2020. **Non-Durable Goods Manufacturing** is estimated to lose 254 jobs between 2020 and 2022. Non-Durable Goods industries lost nearly 4,000 jobs during the pandemic and could recover nearly 93 percent of those jobs by first quarter 2022. *Food Manufacturing* could see the brightest outlook, with a gain of 965. Animal Slaughtering and Processing is slated to rank ninth in numeric growth, with an anticipated gain of 654 jobs. On the negative side, *Printing and Related Support Activities* could see the toughest outlook, losing 639 jobs, or 17.34 percent of its workforce, becoming seventh in numeric decline. The industry lost nearly a quarter of its workforce during the pandemic with recovery being slow. Apparel Knitting Mills is predicted to lose 30.52 percent of its workforce, placing sixth among fastest declining industries.

Durable Goods Manufacturing could see a much worse outcome, with a loss of 2,531 jobs. The industry group lost 5,767 jobs during the pandemic. This would indicate a possible 52 percent recovery for this industry sector. *Fabricated Metal Product Manufacturing* may have the brightest outlook, with a projected gain of 504 new jobs during the projection period. Household Appliance Manufacturing may double its employment by first quarter 2022 due to new business operations, becoming the fastest growing industry in the state. On the negative side of the job market, Machinery Manufacturing is predicted to be ninth in numeric decline losing an estimated 635 jobs during the projection period. In all, eight of 10 Durable Goods subsectors are estimated to see overall declines between 2020 and 2022. The largest drop could come in *Transportation Equipment Manufacturing*, with a loss of 692 jobs. *Computer and Electronic Product Manufacturing* could also cut staffing by 11.51 percent.

The **Trade, Transportation, and Utilities** supersector is forecasted to experience a mixed outlook, with a net loss of 1,502 jobs, or just 0.60 percent of its workforce. The **Wholesale Trade** sector is estimated to gain 1,802 new jobs during the projection period. The industry sector lost 1,486 jobs during the pandemic. Merchant Wholesalers, Durable Goods is slated to be the top growing industry in the state with 1,952 new jobs and fifth in percent change, increasing by 7.97 percent. New businesses on the pipeline are the major contributing factor to this.

The **Retail Trade** sector is projected to lose 2,162 jobs, or 1.60 percent of its workforce during the projection period. The industry lost 5,998 jobs

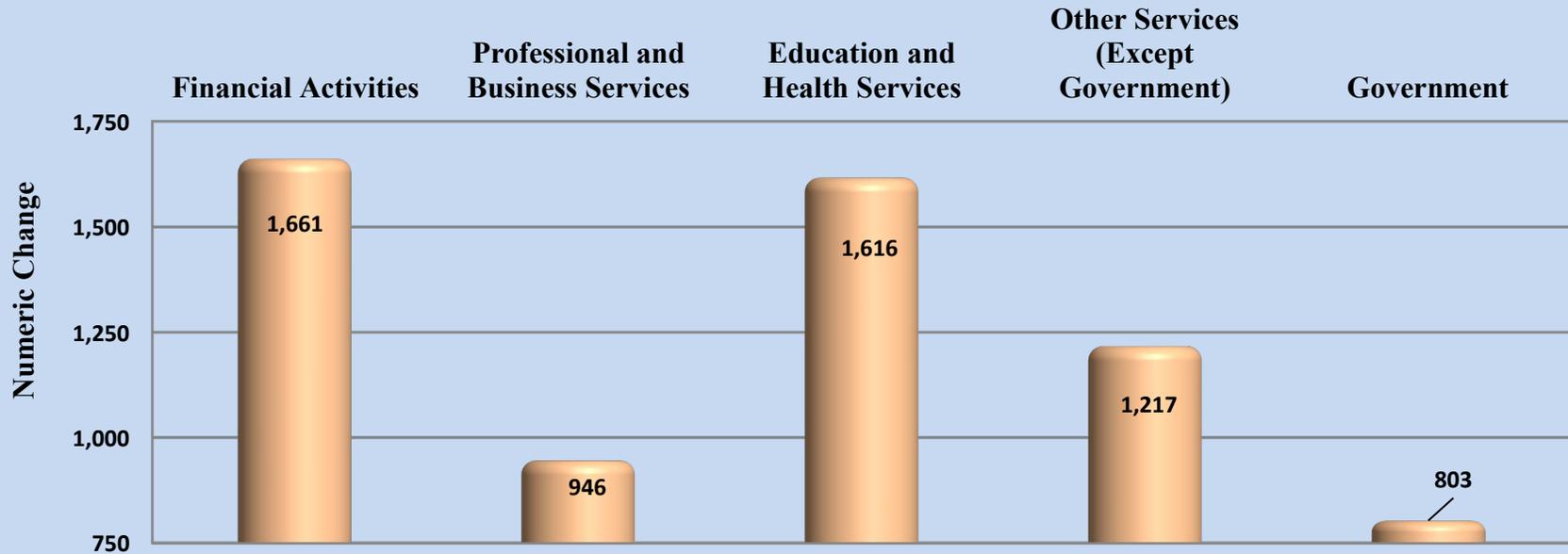


during the pandemic. The industry is not just affected by the pandemic, but also a push toward e-commerce and a rash of retailer closures and bankruptcies. This translates to about a 57 percent recovery by first quarter 2022. *Clothing and Clothing Accessories Stores* could see the toughest outlook among **Retail Trade** subsectors, losing an estimated 1,284 jobs, or 17.41 percent of its workforce. Clothing Stores drives this decline, with an expected loss of 1,001 jobs between first quarter 2020 and first quarter 2022, placing the industry fifth in numeric decline. Vending Machine Operators and Book, Periodical, and Music Stores are forecasted to cut 35.15 and 27.86 percent of its respective workforce, each placing among the top ten fastest declining industries. One bright spot in **Retail Trade** is *Building Material and Garden Equipment and Supplies Dealers*, which is slated to add 350 jobs during the projection period.

The **Transportation and Warehousing** sector could see a loss of 1,200 jobs during the projection period, a two percent reduction in employment. The industry sector saw a loss of 3,171 jobs during the pandemic, translating to a 62.15 percent recovery. *Truck Transportation* is predicted to lose 473 jobs between first quarter 2020 and first quarter 2022. The industry lost over 1,000 jobs during the pandemic and should recover more than half that by March 2022. School and Employee Bus Transportation is slated to lose 26.67 percent of its workforce as current safety guidelines could cause slow recovery for this industry. On the positive side of the job market, *Warehousing and Storage* could see an influx of new business, resulting in a job gain of 296. Freight Transportation Arrangement is predicted to increase employment by 8.88 percent and be among the ten fastest growing industries in the state.

The **Utilities** sector is slated to gain 58 jobs between 2020 and 2022. The industry had minimal change during the pandemic. Electric Power Generation, Transmission and Distribution is predicted to add 49 jobs, while Water, Sewage and Other Systems could see 25 new jobs. Natural Gas Distribution could see a small drop in jobs, losing 1.56 percent of its employment.

Services-Providing Industries-Chart 2



The **Information** supersector is projected to lose 1,252 jobs during the projection period. The industry group lost 1,104 jobs between first and second quarter 2020, indicating this industry is likely to continue to struggle with a move to online options. More than half of the loss is expected to occur in *Motion Picture and Sound Recording Industries*, losing 669 jobs. The industry subsector lost more than 60 percent of its workforce during the pandemic as theaters were forced to close amid state restrictions and as Hollywood and other movie producers were not making new movies. Motion Picture and Video Industries is slated to be the fastest declining industry in the state, losing 55.28 percent of its workforce, making it sixth in numeric decline. This industry could continue to struggle as online movie streaming options become more available. However, there are a few bright spots. Software Publishers is projected to be third in the state in percent growth, increasing its workforce by 11.05 percent. *Data Processing, Hosting and Related Services* is predicted to add 73 jobs to its workforce by March 2022.

The **Financial Activities** supersector is projected to add 1,661 jobs during the projection period. The **Finance and Insurance** sector is slated to grow by 1,485 jobs. The industry sector was minimally impacted during the pandemic, losing only 229 jobs. Credit Intermediation and Related Activities is predicted to gain 689 jobs between first quarter 2020 and first quarter 2022, placing eighth in numeric change. *Insurance Carriers and Related Activities* is also forecasted to see strong growth, adding 755 new jobs to its workforce.

The **Real Estate and Rental and Leasing** sector is estimated to experience a net gain of 176 jobs. The sector lost 442 jobs during the pandemic

and could exceed pre-pandemic employment by March 2022. The *Real Estate* subsector is slated to add 304 new jobs, while *Rental and Leasing Services* could lose 125 jobs.

The **Professional and Business Services** supersector is predicted to gain 946 jobs during the projection period. The industry group lost 12,223 jobs during the pandemic but could experience a full recovery by March 2022. The **Professional, Scientific, and Technical Services** sector is slated to add 1,481 new jobs. The industry sector lost 2,048 jobs between first and second quarter 2020. Each industry in this sector is set to add jobs with Management, Scientific, and Technical Consulting Services adding 368, making the Top 20 Growing Industries list as well as the Top 20 Fastest Growing Industries list. Scientific Research and Development Services is projected to increase staffing by 8.57 percent, placing among the ten fastest growing industries.

Management of Companies and Enterprises could increase employment by 466 jobs during the projection period. The sector lost 864 jobs during the pandemic.

The **Administrative and Support and Waste Management and Remediation Services** sector is projected to lose 1,001 jobs between 2020 and 2022. The industry sector lost 9,311 jobs during the pandemic. A mixed outlook is predicted as the *Administrative and Support Services* subsector is estimated to lose 1,206 jobs. Employment Services is slated to lose 2,526 jobs, placing second in the state in numeric decline. Travel Arrangement and Reservation Services is predicted to be the third fastest declining industry, with a 40.11 percent decline. The industry lost 100 jobs in the second quarter and could continue to struggle as travel and tourism was severely reduced and struggles to bounce back. On the positive side, Services to Buildings and Dwellings is forecasted to add 750 jobs, while Business Support Services is expected to experience a gain of 716 jobs, respectively. The *Waste Management and Remediation Service* subsector is predicted to gain 205 jobs.

Among growing supersectors in the state, **Education and Health Services** could see the largest growth during the 2020 and 2022 projection period, but at a much lower level than previous rounds, gaining 1,616 new jobs, or just 0.52 percent increase. The industry supersector was not immune to the effects of the pandemic, losing 19,555 jobs between first quarter and second quarter 2020, some of which are seasonal factors, but the industry tends to be resilient in economic downturns. The **Educational Services** sector is estimated to gain 571 new jobs during the projection period. Elementary and Secondary Schools drives this growth, with an expected gain of 472 jobs. The industry lost 4,160 jobs during the pandemic as schools switched to virtual learning across the state. About a quarter of the loss is due to regular seasonal factors.

The **Healthcare and Social Assistance** sector is slated to gain 1,045 new jobs during the projection period. The outlook, however, is mixed. The sector lost 12,702 jobs during the pandemic. Most of the gain is estimated to occur in *Ambulatory Health Care Services*, gaining 1,543 new jobs. This industry lost 4,797 jobs as elective procedures were suspended and multiple furlough announcements were reported. Offices of Physicians is set to be fourth in numeric change, adding 880 new jobs to its workforce. On the negative side of the job market, *Nursing and Residential Care Facilities* is projected to lose 176 jobs. Contributing to this loss is Nursing Care Facilities (Skilled Nursing Facilities), estimated to lose 396 jobs by March 2022. The *Social Assistance* subsector could also be significantly impacted and slow to recover, experiencing a net loss of 572 jobs.

The **Leisure and Hospitality** supersector was the hardest hit by the pandemic. The industry group lost 27,943 jobs as restrictions were placed heavily on this supersector. The industry could see a recovery of about 60.66 percent but will likely still see a significant loss of jobs during the

projection period, losing a total of 10,992 jobs during the projection period, a 9.21 percent reduction. The **Arts, Entertainment, and Recreation** sector is slated to lose 527 jobs between 2020 and 2022. Most of the decline is likely to occur in *Performing Arts, Spectator Sports, and Related Industries*, a 28.43 percent job loss. Spectator Sports was severely reduced during the pandemic with cancellations of sports seasons and reduction of fan participation. The industry could lose about a quarter of its workforce during the projection period, or 559 jobs. Promoters of Performing Arts, Sports, and Similar Events could lose 52.73 percent, while Agents and Managers for Artists, Athletes, Entertainers, and Other Public Figures could be set back by 33.93 percent, placing second and fifth, respectively, in the Top 20 Fastest Declining Industries list. The industries could be slow to recover as entertainment venues were forced to cut back in-person operations and limit performances and concerts. A few positive outcomes in the **Arts, Entertainment, and Recreation** sector come in Museums, Historical Sites, and Similar Institution, which is predicted to increase by 8.92 percent, fifth fastest in the state, and the Amusement, Gambling, and Recreation Industries, increasing by 374 jobs, as casino operations gear up in the state.

Accommodation and Food Services is likely to see the worst outlook among industry sectors in the state. The industry sector is projected to lose 10,465 jobs between first quarter 2020 and first quarter 2022. It lost 24,936 between first and second quarter 2020. The entire sector was affected by state and federal restrictions on travel and tourism as well as limits on in-person dining. *Accommodation, including Hotels and Motels* is predicted to lose 1,350 jobs. Traveler Accommodation could see the brunt of the decline, with a decline of 1,342, third highest decline in the state. The only positive industry in the entire sector is RV (Recreational Vehicle) Parks and Recreational Camps, projected to have a small net gain by March 2022. *Food Services and Drinking Places* is likely to see a difficult recovery, having the largest drop of any subsector. The industry is forecast to lose 9,115 jobs during the projection period, which translates to a 57.79 percent recovery by first quarter 2022. Restaurants and Other Eating Places is slated to be the top declining industry, with a loss of 7,783 jobs. Special Food Services is fourth, losing 1,091 jobs, while Drinking Places (Alcoholic Beverages), which include bars, is estimated to lose a quarter of its workforce, placing among the ten fastest declining industries in the state.

The **Other Services (Except Government)** supersector is projected to gain 1,217 jobs between 2020 and 2022. The industry group lost 2,387 covered employment jobs during the pandemic. The outlook is, however, mixed. *Religious, Grantmaking, Civic, Professional, and Similar Organizations* is estimated to gain 1,720 new jobs between 2020 and 2022. Religious Organizations is likely to weather the storm of the pandemic, even though in-person worship services were curtailed in the leading months of the pandemic. The industry is slated to gain 781 new jobs during the projection period. Social Advocacy Organizations also is among the ten highest growing industries, as well as fifth in percent growth, predicted to add 534 new jobs, or 9.67 percent, to its workforce. Grantmaking and Giving Services is forecasted to grow by 15.04 percent, second fastest in the state. The downside of this industry group is *Personal and Laundry Services*, which lost 1,417 jobs during the pandemic. The industry could experience a loss of 523 jobs during the projection period, for a 63.09 percent recovery between second quarter 2020 and first quarter 2022. Drycleaning and Laundry Services could see the toughest outlook, losing 380 jobs, or 17.82 percent of its workforce, placing in both the Top 20 Declining Industries and the Top 20 Fastest Declining Industries lists.

Government employers are estimated to increase by 803 new jobs between first quarter 2020 and first quarter 2022. Federal Government, Excluding Post Office is projected to add 325 new jobs, while Postal Service is anticipated to lose 131 jobs. State Government, Excluding Education and Hospitals is projected to cut 546 jobs, while Local Government, Excluding Education and Hospitals is forecasted to be second in the state in numeric change, gaining 1,155 during the projection period. The industry gained 971 between first quarter 2019 and first quarter 2020.

Top 20 Growing Industries by Numeric Change

NAICS Code	NAICS Title	2020 Estimated Employment	2022 Projected Employment	Numeric Change	Percent Change
423000	Merchant Wholesalers, Durable Goods	24,481	26,433	1,952	7.97%
999300	Local Government, Excluding Education and Hospitals	41,758	42,913	1,155	2.77%
238200	Building Equipment Contractors	18,655	19,790	1,135	6.08%
621100	Offices of Physicians	26,309	27,189	880	3.34%
813100	Religious Organizations	34,162	34,943	781	2.29%
561700	Services to Buildings and Dwellings	14,777	15,527	750	5.08%
561400	Business Support Services	9,344	10,060	716	7.66%
522000	Credit Intermediation and Related Activities	19,864	20,553	689	3.47%
311600	Animal Slaughtering and Processing	34,070	34,724	654	1.92%
813300	Social Advocacy Organizations	5,522	6,056	534	9.67%
813200	Grantmaking and Giving Services	3,490	4,015	525	15.04%
524100	Insurance Carriers	18,590	19,112	522	2.81%
332000	Fabricated Metal Product Manufacturing	14,833	15,337	504	3.40%
611100	Elementary and Secondary Schools	78,482	78,954	472	0.60%
551000	Management of Companies and Enterprises	34,485	34,951	466	1.35%
541600	Management, Scientific, and Technical Consulting Services	6,128	6,496	368	6.01%
541500	Computer Systems Design and Related Services	10,321	10,653	332	3.22%
999100	Federal Government, Excluding Post Office	15,327	15,652	325	2.12%
237100	Utility System Construction	4,640	4,949	309	6.66%
531000	Real Estate	9,738	10,042	304	3.12%

Top 20 Fastest Growing Industries by Percent Change (Minimum 50 Employment)

NAICS Code	NAICS Title	2020 Estimated Employment	2022 Projected Employment	Numeric Change	Percent Change
335200	Household Appliance Manufacturing	26	55	29	111.54%
813200	Grantmaking and Giving Services	3,490	4,015	525	15.04%
511200	Software Publishers	362	402	40	11.05%
813300	Social Advocacy Organizations	5,522	6,056	534	9.67%
712000	Museums, Historical Sites, and Similar Institution	751	818	67	8.92%
488500	Freight Transportation Arrangement	2,253	2,453	200	8.88%
541700	Scientific Research and Development Services	887	963	76	8.57%
423000	Merchant Wholesalers, Durable Goods	24,481	26,433	1,952	7.97%
561400	Business Support Services	9,344	10,060	716	7.66%
711500	Independent Artists, Writers, and Performers	80	86	6	7.50%
561900	Other Support Services	1,267	1,361	94	7.42%
237100	Utility System Construction	4,640	4,949	309	6.66%
336400	Aerospace Product and Parts Manufacturing	4,282	4,558	276	6.45%
622200	Psychiatric and Substance Abuse Hospitals	3,455	3,672	217	6.28%
238200	Building Equipment Contractors	18,655	19,790	1,135	6.08%
562900	Remediation and Other Waste Management Services	1,336	1,417	81	6.06%
541600	Management, Scientific, and Technical Consulting Services	6,128	6,496	368	6.01%
611400	Business Schools and Computer and Management Training	141	149	8	5.67%
562100	Waste Collection	1,293	1,366	73	5.65%
312000	Beverage and Tobacco Product Manufacturing	1,462	1,544	82	5.61%

Top 20 Declining Industries by Numeric Change

NAICS Code	NAICS Title	2020 Estimated Employment	2022 Projected Employment	Numeric Change	Percent Change
722500	Restaurants and Other Eating Places	90,406	82,623	-7,783	-8.61%
561300	Employment Services	27,548	25,022	-2,526	-9.17%
721100	Traveler Accommodation	10,851	9,509	-1,342	-12.37%
722300	Special Food Services	5,026	3,935	-1,091	-21.71%
448100	Clothing Stores	5,618	4,617	-1,001	-17.82%
512100	Motion Picture and Video Industries	1,212	542	-670	-55.28%
323000	Printing and Related Support Activities	3,686	3,047	-639	-17.34%
333000	Machinery Manufacturing	11,698	11,063	-635	-5.43%
711200	Spectator Sports	2,159	1,600	-559	-25.89%
999200	State Government, Excluding Education and Hospitals	31,416	30,870	-546	-1.74%
484000	Truck Transportation	32,671	32,198	-473	-1.45%
511100	Newspaper, Periodical, Book, and Directory Publishers	2,299	1,833	-466	-20.27%
331200	Steel Product Manufacturing from Purchased Steel	2,271	1,858	-413	-18.19%
623100	Nursing Care Facilities (Skilled Nursing Facilities)	22,551	22,155	-396	-1.76%
443000	Electronics and Appliance Stores	3,157	2,765	-392	-12.42%
336600	Ship and Boat Building	2,387	1,998	-389	-16.30%
812300	Drycleaning and Laundry Services	2,133	1,753	-380	-17.82%
711300	Promoters of Performing Arts, Sports, and Similar Events	696	329	-367	-52.73%
561200	Facilities Support Services	1,496	1,151	-345	-23.06%
335300	Electrical Equipment Manufacturing	2,671	2,334	-337	-12.62%
336300	Motor Vehicle Parts Manufacturing	5,130	4,793	-337	-6.57%

Top 20 Fastest Declining Industries by Percent Change (Numeric Change No Greater than -5)

NAICS Code	NAICS Title	2020 Estimated Employment	2022 Projected Employment	Numeric Change	Percent Change
512100	Motion Picture and Video Industries	1,212	542	-670	-55.28%
711300	Promoters of Performing Arts, Sports, and Similar Events	696	329	-367	-52.73%
561500	Travel Arrangement and Reservation Services	354	212	-142	-40.11%
454200	Vending Machine Operators	404	262	-142	-35.15%
711400	Agents and Managers for Artists, Athletes, Entertainers, and Other Public Figures	56	37	-19	-33.93%
315100	Apparel Knitting Mills	439	305	-134	-30.52%
451200	Book, Periodical, and Music Stores	499	360	-139	-27.86%
485400	School and Employee Bus Transportation	435	319	-116	-26.67%
711200	Spectator Sports	2,159	1,600	-559	-25.89%
722400	Drinking Places (Alcoholic Beverages)	964	723	-241	-25.00%
485300	Taxi and Limousine Service	296	225	-71	-23.99%
561200	Facilities Support Services	1,496	1,151	-345	-23.06%
722300	Special Food Services	5,026	3,935	-1,091	-21.71%
511100	Newspaper, Periodical, Book, and Directory Publishers	2,299	1,833	-466	-20.27%
331500	Foundries	1,278	1,022	-256	-20.03%
213000	Support Activities for Mining	1,183	959	-224	-18.93%
331200	Steel Product Manufacturing from Purchased Steel	2,271	1,858	-413	-18.19%
813400	Civic and Social Organizations	1,134	931	-203	-17.90%
448100	Clothing Stores	5,618	4,617	-1,001	-17.82%
812300	Drycleaning and Laundry Services	2,133	1,753	-380	-17.82%

2020-2022 Arkansas Statewide Industry Projections

NAICS Code	NAICS Title	2020 Estimated Employment	2022 Projected Employment	Numeric Change	Percent Change
000000	TOTAL ALL INDUSTRIES	1,431,344	1,420,248	-11,096	-0.78%
000671	Total Self Employed and Unpaid Family Workers, All Jobs	124,201	121,845	-2,356	-1.90%
006010	Self Employed Workers, All Jobs	117,329	115,227	-2,102	-1.79%
007010	Unpaid Family Workers, All Jobs	6,872	6,618	-254	-3.70%
101000	Goods Producing	238,719	237,482	-1,237	-0.52%
101100	NATURAL RESOURCES AND MINING	25,890	25,499	-391	-1.51%
110000	Agriculture, Forestry, Fishing and Hunting	22,303	22,157	-146	-0.65%
111000	<i>Crop Production</i>	7,212	7,146	-66	-0.92%
112000	<i>Animal Production</i>	6,799	6,713	-86	-1.26%
115000	<i>Support Activities for Agriculture and Forestry</i>	5,899	5,987	88	1.49%
	<i>Other</i>	2,393	2,311	-82	-3.43%
210000	Mining	3,587	3,342	-245	-6.83%
211000	<i>Oil and Gas Extraction</i>	615	560	-55	-8.94%
212000	<i>Mining (except Oil and Gas)</i>	1,789	1,823	34	1.90%
213000	<i>Support Activities for Mining</i>	1,183	959	-224	-18.93%
101200	CONSTRUCTION	52,189	54,128	1,939	3.72%
236000	<i>Construction of Buildings</i>	11,020	11,272	252	2.29%
236100	Residential Building Construction	3,662	3,862	200	5.46%
236200	Nonresidential Building Construction	7,358	7,410	52	0.71%
237000	<i>Heavy and Civil Engineering Construction</i>	8,096	8,466	370	4.57%
237100	Utility System Construction	4,640	4,949	309	6.66%
237200	Land Subdivision	112	102	-10	-8.93%
237300	Highway, Street, and Bridge Construction	2,538	2,614	76	2.99%
237900	Other Heavy and Civil Engineering Construction	806	801	-5	-0.62%
238000	<i>Specialty Trade Contractors</i>	33,073	34,390	1,317	3.98%
238100	Foundation, Structure, and Building Exterior Contractors	5,866	5,923	57	0.97%
238200	Building Equipment Contractors	18,655	19,790	1,135	6.08%
238300	Building Finishing Contractors	3,682	3,661	-21	-0.57%
238900	Other Specialty Trade Contractors	4,870	5,016	146	3.00%

2020-2022 Arkansas Statewide Industry Projections

NAICS Code	NAICS Title	2020 Estimated Employment	2022 Projected Employment	Numeric Change	Percent Change
101300	MANUFACTURING	160,640	157,855	-2,785	-1.73%
	Non-Durable Goods Manufacturing	84,397	84,143	-254	-0.30%
<i>311000</i>	<i>Food Manufacturing</i>	<i>49,889</i>	<i>50,854</i>	<i>965</i>	<i>1.93%</i>
311100	Animal Food Manufacturing	1,753	1,733	-20	-1.14%
311200	Grain and Oilseed Milling	2,821	2,979	158	5.60%
311400	Fruit and Vegetable Preserving and Specialty Food Manufacturing	4,263	4,344	81	1.90%
311500	Dairy Product Manufacturing	570	582	12	2.11%
311600	Animal Slaughtering and Processing	34,070	34,724	654	1.92%
311800	Bakeries and Tortilla Manufacturing	3,972	3,983	11	0.28%
311900	Other Food Manufacturing	2,407	2,480	73	3.03%
	Other	33	29	-4	-12.12%
312000	<i>Beverage and Tobacco Product Manufacturing</i>	<i>1,462</i>	<i>1,544</i>	<i>82</i>	<i>5.61%</i>
313000	<i>Textile Mills</i>	<i>129</i>	<i>135</i>	<i>6</i>	<i>4.65%</i>
314000	<i>Textile Product Mills</i>	<i>863</i>	<i>744</i>	<i>-119</i>	<i>-13.79%</i>
314100	Textile Furnishings Mills	23	23	0	0.00%
314900	Other Textile Product Mills	840	721	-119	-14.17%
315000	<i>Apparel Manufacturing</i>	<i>753</i>	<i>747</i>	<i>-6</i>	<i>-0.80%</i>
315100	Apparel Knitting Mills	439	305	-134	-30.52%
	Other	314	442	128	40.76%
316000	<i>Leather and Allied Product Manufacturing</i>	<i>1,094</i>	<i>963</i>	<i>-131</i>	<i>-11.97%</i>
316200	Footwear Manufacturing	885	753	-132	-14.92%
316900	Other Leather and Allied Product Manufacturing	209	210	1	0.48%
322000	<i>Paper Manufacturing</i>	<i>9,168</i>	<i>8,601</i>	<i>-567</i>	<i>-6.18%</i>
322100	Pulp, Paper, and Paperboard Mills	3,498	3,217	-281	-8.03%
322200	Converted Paper Product Manufacturing	5,670	5,384	-286	-5.04%
323000	<i>Printing and Related Support Activities</i>	<i>3,686</i>	<i>3,047</i>	<i>-639</i>	<i>-17.34%</i>
324000	<i>Petroleum and Coal Products Manufacturing</i>	<i>1,144</i>	<i>1,116</i>	<i>-28</i>	<i>-2.45%</i>
325000	<i>Chemical Manufacturing</i>	<i>5,635</i>	<i>5,823</i>	<i>188</i>	<i>3.34%</i>
326000	<i>Plastics and Rubber Products Manufacturing</i>	<i>10,574</i>	<i>10,569</i>	<i>-5</i>	<i>-0.05%</i>
326100	Plastics Product Manufacturing	6,418	6,393	-25	-0.39%
326200	Rubber Product Manufacturing	4,156	4,176	20	0.48%
	Durable Goods Manufacturing	76,243	73,712	-2,531	-3.32%
321000	<i>Wood Product Manufacturing</i>	<i>9,569</i>	<i>9,188</i>	<i>-381</i>	<i>-3.98%</i>
321100	Sawmills and Wood Preservation	4,483	4,512	29	0.65%
321200	Veneer, Plywood, and Engineered Wood Product Manufacturing	1,993	1,780	-213	-10.69%

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NAICS Code	NAICS Title	2020 Estimated Employment	2022 Projected Employment	Numeric Change	Percent Change
321900	Other Wood Product Manufacturing	3,093	2,896	-197	-6.37%
327000	<i>Nonmetallic Mineral Product Manufacturing</i>	3,620	3,581	-39	-1.08%
331000	<i>Primary Metal Manufacturing</i>	8,273	7,763	-510	-6.16%
331100	Iron and Steel Mills and Ferroalloy Manufacturing	3,575	3,720	145	4.06%
331200	Steel Product Manufacturing from Purchased Steel	2,271	1,858	-413	-18.19%
331300	Alumina and Aluminum Production	877	896	19	2.17%
331400	Nonferrous Metal (except Aluminum) Production and Processing	272	267	-5	-1.84%
331500	Foundries	1,278	1,022	-256	-20.03%
332000	<i>Fabricated Metal Product Manufacturing</i>	14,833	15,337	504	3.40%
333000	<i>Machinery Manufacturing</i>	11,698	11,063	-635	-5.43%
334000	<i>Computer and Electronic Product Manufacturing</i>	1,825	1,615	-210	-11.51%
334400	Semiconductor and Other Electronic Component Manufacturing	1,311	1,168	-143	-10.91%
334500	Navigational, Measuring, Electromedical, and Control Instruments Manufacturing	343	312	-31	-9.04%
	Other	171	135	-36	-21.05%
335000	<i>Electrical Equipment, Appliance, and Component Manufacturing</i>	4,275	3,904	-371	-8.68%
335100	Electric Lighting Equipment Manufacturing	307	273	-34	-11.07%
335200	Household Appliance Manufacturing	26	55	29	111.54%
335300	Electrical Equipment Manufacturing	2,671	2,334	-337	-12.62%
335900	Other Electrical Equipment and Component Manufacturing	1,271	1,242	-29	-2.28%
336000	<i>Transportation Equipment Manufacturing</i>	15,339	14,647	-692	-4.51%
336200	Motor Vehicle Body and Trailer Manufacturing	2,166	1,925	-241	-11.13%
336300	Motor Vehicle Parts Manufacturing	5,130	4,793	-337	-6.57%
336400	Aerospace Product and Parts Manufacturing	4,282	4,558	276	6.45%
336600	Ship and Boat Building	2,387	1,998	-389	-16.30%
	Other	1,374	1,373	-1	-0.07%
337000	<i>Furniture and Related Product Manufacturing</i>	3,429	3,196	-233	-6.79%
339000	<i>Miscellaneous Manufacturing</i>	3,382	3,418	36	1.06%
339100	Medical Equipment and Supplies Manufacturing	1,694	1,732	38	2.24%
339900	Other Miscellaneous Manufacturing	1,688	1,686	-2	-0.12%
102000	Services Providing	1,068,424	1,060,921	-7,503	-0.70%
102100	TRADE, TRANSPORTATION, AND UTILITIES	250,517	249,015	-1,502	-0.60%
420000	Wholesale Trade	47,294	49,096	1,802	3.81%
423000	<i>Merchant Wholesalers, Durable Goods</i>	24,481	26,433	1,952	7.97%
424000	<i>Merchant Wholesalers, Nondurable Goods</i>	17,777	17,774	-3	-0.02%

2020-2022 Arkansas Statewide Industry Projections

NAICS Code	NAICS Title	2020 Estimated Employment	2022 Projected Employment	Numeric Change	Percent Change
425000	<i>Wholesale Electronic Markets and Agents and Brokers</i>	5,036	4,889	-147	-2.92%
440000	Retail Trade	135,330	133,168	-2,162	-1.60%
441000	<i>Motor Vehicle and Parts Dealers</i>	19,092	18,958	-134	-0.70%
441100	Automobile Dealers	11,703	11,515	-188	-1.61%
441200	Other Motor Vehicle Dealers	1,649	1,650	1	0.06%
441300	Automotive Parts, Accessories, and Tire Stores	5,740	5,793	53	0.92%
442000	<i>Furniture and Home Furnishings Stores</i>	3,542	3,391	-151	-4.26%
442100	Furniture Stores	1,966	1,889	-77	-3.92%
442200	Home Furnishings Stores	1,576	1,502	-74	-4.70%
443000	<i>Electronics and Appliance Stores</i>	3,157	2,765	-392	-12.42%
444000	<i>Building Material and Garden Equipment and Supplies Dealers</i>	11,952	12,302	350	2.93%
444100	Building Material and Supplies Dealers	9,958	10,228	270	2.71%
444200	Lawn and Garden Equipment and Supplies Stores	1,994	2,074	80	4.01%
445000	<i>Food and Beverage Stores</i>	19,378	19,609	231	1.19%
446000	<i>Health and Personal Care Stores</i>	8,531	8,535	4	0.05%
447000	<i>Gasoline Stations</i>	12,312	12,321	9	0.07%
448000	<i>Clothing and Clothing Accessories Stores</i>	7,374	6,090	-1,284	-17.41%
448100	Clothing Stores	5,618	4,617	-1,001	-17.82%
448200	Shoe Stores	1,068	888	-180	-16.85%
448300	Jewelry, Luggage, and Leather Goods Stores	688	585	-103	-14.97%
451000	<i>Sporting Goods, Hobby, Book, and Music Stores</i>	4,239	3,887	-352	-8.30%
451100	Sporting Goods, Hobby, and Musical Instrument Stores	3,740	3,527	-213	-5.70%
451200	Book, Periodical, and Music Stores	499	360	-139	-27.86%
452000	<i>General Merchandise Stores</i>	36,644	36,457	-187	-0.51%
453000	<i>Miscellaneous Store Retailers</i>	7,293	7,192	-101	-1.38%
454000	<i>Nonstore Retailers</i>	1,816	1,661	-155	-8.54%
454100	Electronic Shopping and Mail Order Houses	709	712	3	0.42%
454200	Vending Machine Operators	404	262	-142	-35.15%
454300	Direct Selling Establishments	703	687	-16	-2.28%
480000	Transportation and Warehousing	60,013	58,813	-1,200	-2.00%
481000	<i>Air Transportation</i>	801	746	-55	-6.87%
481100	Scheduled Air Transportation	702	643	-59	-8.40%
481200	Nonscheduled Air Transportation	99	103	4	4.04%
483000	<i>Water Transportation</i>	35	32	-3	-8.57%
484000	<i>Truck Transportation</i>	32,671	32,198	-473	-1.45%

2020-2022 Arkansas Statewide Industry Projections

NAICS Code	NAICS Title	2020 Estimated Employment	2022 Projected Employment	Numeric Change	Percent Change
485000	<i>Transit and Ground Passenger Transportation</i>	2,145	1,796	-349	-16.27%
485300	Taxi and Limousine Service	296	225	-71	-23.99%
485400	School and Employee Bus Transportation	435	319	-116	-26.67%
485900	Other Transit and Ground Passenger Transportation	1,144	1,037	-107	-9.35%
	Other	270	215	-55	-20.37%
486000	<i>Pipeline Transportation</i>	419	396	-23	-5.49%
488000	<i>Support Activities for Transportation</i>	5,735	5,857	122	2.13%
488100	Support Activities for Air Transportation	1,202	1,264	62	5.16%
488200	Support Activities for Rail Transportation	839	702	-137	-16.33%
488300	Support Activities for Water Transportation	447	437	-10	-2.24%
488400	Support Activities for Road Transportation	898	902	4	0.45%
488500	Freight Transportation Arrangement	2,253	2,453	200	8.88%
488900	Other Support Activities for Transportation	96	99	3	3.13%
493000	<i>Warehousing and Storage</i>	9,016	9,312	296	3.28%
	Other	9,191	8,476	-715	-7.78%
220000	Utilities	7,880	7,938	58	0.74%
221100	Electric Power Generation, Transmission and Distribution	5,915	5,964	49	0.83%
221200	Natural Gas Distribution	1,023	1,007	-16	-1.56%
221300	Water, Sewage and Other Systems	942	967	25	2.65%
102200	INFORMATION	11,078	9,826	-1,252	-11.30%
511000	<i>Publishing Industries (except Internet)</i>	2,661	2,235	-426	-16.01%
511100	Newspaper, Periodical, Book, and Directory Publishers	2,299	1,833	-466	-20.27%
511200	Software Publishers	362	402	40	11.05%
512000	<i>Motion Picture and Sound Recording Industries</i>	1,232	563	-669	-54.30%
512100	Motion Picture and Video Industries	1,212	542	-670	-55.28%
512200	Sound Recording Industries	20	21	1	5.00%
515000	<i>Broadcasting (except Internet)</i>	1,492	1,401	-91	-6.10%
517000	<i>Telecommunications</i>	3,444	3,301	-143	-4.15%
518000	<i>Data Processing, Hosting and Related Services</i>	1,899	1,972	73	3.84%
519000	<i>Other Information Services</i>	350	354	4	1.14%
102300	FINANCIAL ACTIVITIES	63,976	65,637	1,661	2.60%
520000	Finance and Insurance	50,274	51,759	1,485	2.95%

2020-2022 Arkansas Statewide Industry Projections

NAICS Code	NAICS Title	2020 Estimated Employment	2022 Projected Employment	Numeric Change	Percent Change
522000	<i>Credit Intermediation and Related Activities</i>	19,864	20,553	689	3.47%
523000	<i>Securities, Commodity Contracts, and Other Financial Investments and Related Activities</i>	3,132	3,169	37	1.18%
524000	<i>Insurance Carriers and Related Activities</i>	27,197	27,952	755	2.78%
524100	Insurance Carriers	18,590	19,112	522	2.81%
524200	Agencies, Brokerages, and Other Insurance Related Activities	8,607	8,840	233	2.71%
	<i>Other</i>	81	85	4	4.94%
530000	Real Estate and Rental and Leasing	13,702	13,878	176	1.28%
531000	<i>Real Estate</i>	9,738	10,042	304	3.12%
532000	<i>Rental and Leasing Services</i>	3,907	3,782	-125	-3.20%
533000	<i>Lessors of Nonfinancial Intangible Assets (except Copyrighted Works)</i>	57	54	-3	-5.26%
102400	PROFESSIONAL AND BUSINESS SERVICES	147,025	147,971	946	0.64%
540000	Professional, Scientific, and Technical Services	45,425	46,906	1,481	3.26%
541000	<i>Professional, Scientific, and Technical Services</i>	45,425	46,906	1,481	3.26%
541100	Legal Services	5,965	6,052	87	1.46%
541200	Accounting, Tax Preparation, Bookkeeping, and Payroll Services	6,944	7,186	242	3.49%
541300	Architectural, Engineering, and Related Services	6,421	6,595	174	2.71%
541400	Specialized Design Services	381	389	8	2.10%
541500	Computer Systems Design and Related Services	10,321	10,653	332	3.22%
541600	Management, Scientific, and Technical Consulting Services	6,128	6,496	368	6.01%
541700	Scientific Research and Development Services	887	963	76	8.57%
541800	Advertising, Public Relations, and Related Services	3,887	4,063	176	4.53%
541900	Other Professional, Scientific, and Technical Services	4,491	4,509	18	0.40%
550000	Management of Companies and Enterprises	34,485	34,951	466	1.35%
560000	Administrative and Support and Waste Management and Remediation Services	67,115	66,114	-1,001	-1.49%
561000	<i>Administrative and Support Services</i>	63,403	62,197	-1,206	-1.90%
561100	Office Administrative Services	3,479	3,615	136	3.91%
561200	Facilities Support Services	1,496	1,151	-345	-23.06%
561300	Employment Services	27,548	25,022	-2,526	-9.17%
561400	Business Support Services	9,344	10,060	716	7.66%
561500	Travel Arrangement and Reservation Services	354	212	-142	-40.11%
561600	Investigation and Security Services	5,138	5,249	111	2.16%
561700	Services to Buildings and Dwellings	14,777	15,527	750	5.08%

2020-2022 Arkansas Statewide Industry Projections

NAICS Code	NAICS Title	2020 Estimated Employment	2022 Projected Employment	Numeric Change	Percent Change
561900	Other Support Services	1,267	1,361	94	7.42%
562000	<i>Waste Management and Remediation Service</i>	3,712	3,917	205	5.52%
562100	Waste Collection	1,293	1,366	73	5.65%
562200	Waste Treatment and Disposal	1,083	1,134	51	4.71%
562900	Remediation and Other Waste Management Services	1,336	1,417	81	6.06%
102500	EDUCATION AND HEALTH SERVICES	309,291	310,907	1,616	0.52%
610000	Educational Services	116,343	116,914	571	0.49%
611100	Elementary and Secondary Schools	78,482	78,954	472	0.60%
611200	Junior Colleges	7,059	7,110	51	0.72%
611300	Colleges, Universities, and Professional Schools	27,137	27,201	64	0.24%
611400	Business Schools and Computer and Management Training	141	149	8	5.67%
611500	Technical and Trade Schools	1,004	1,025	21	2.09%
611600	Other Schools and Instruction	1,907	1,832	-75	-3.93%
611700	Educational Support Services	613	643	30	4.89%
620000	Health Care and Social Assistance	192,948	193,993	1,045	0.54%
621000	<i>Ambulatory Health Care Services</i>	<i>60,096</i>	<i>61,639</i>	<i>1,543</i>	<i>2.57%</i>
621100	Offices of Physicians	26,309	27,189	880	3.34%
621200	Offices of Dentists	7,426	7,611	185	2.49%
621300	Offices of Other Health Practitioners	9,939	9,923	-16	-0.16%
621400	Outpatient Care Centers	5,324	5,528	204	3.83%
621500	Medical and Diagnostic Laboratories	1,312	1,345	33	2.52%
621600	Home Health Care Services	6,955	7,077	122	1.75%
621900	Other Ambulatory Health Care Services	2,831	2,966	135	4.77%
622000	<i>Hospitals</i>	<i>60,514</i>	<i>60,764</i>	<i>250</i>	<i>0.41%</i>
622100	General Medical and Surgical Hospitals	53,071	53,035	-36	-0.07%
622200	Psychiatric and Substance Abuse Hospitals	3,455	3,672	217	6.28%
622300	Specialty (except Psychiatric and Substance Abuse) Hospitals	3,988	4,057	69	1.73%
623000	<i>Nursing and Residential Care Facilities</i>	<i>32,308</i>	<i>32,132</i>	<i>-176</i>	<i>-0.54%</i>
623100	Nursing Care Facilities (Skilled Nursing Facilities)	22,551	22,155	-396	-1.76%
623200	Residential Intellectual & Developmental Disability, Mental Health, & Substance Abuse Facilities	4,287	4,239	-48	-1.12%
623300	Continuing Care Retirement Communities and Assisted Living Facilities for the Elderly	4,467	4,702	235	5.26%
623900	Other Residential Care Facilities	1,003	1,036	33	3.29%
624000	<i>Social Assistance</i>	<i>40,030</i>	<i>39,458</i>	<i>-572</i>	<i>-1.43%</i>

2020-2022 Arkansas Statewide Industry Projections

NAICS Code	NAICS Title	2020 Estimated Employment	2022 Projected Employment	Numeric Change	Percent Change
624100	Individual and Family Services	24,585	24,423	-162	-0.66%
624200	Community Food and Housing, and Emergency and Other Relief Services	1,441	1,508	67	4.65%
624300	Vocational Rehabilitation Services	3,310	3,115	-195	-5.89%
624400	Child Day Care Services	10,694	10,412	-282	-2.64%
102600	LEISURE AND HOSPITALITY	119,392	108,400	-10,992	-9.21%
710000	Arts, Entertainment, and Recreation	11,577	11,050	-527	-4.55%
711000	<i>Performing Arts, Spectator Sports, and Related Industries</i>	3,405	2,437	-968	-28.43%
711100	Performing Arts Companies	414	385	-29	-7.00%
711200	Spectator Sports	2,159	1,600	-559	-25.89%
711300	Promoters of Performing Arts, Sports, and Similar Events	696	329	-367	-52.73%
711400	Agents and Managers for Artists, Athletes, Entertainers, and Other Public Figures	56	37	-19	-33.93%
711500	Independent Artists, Writers, and Performers	80	86	6	7.50%
712000	<i>Museums, Historical Sites, and Similar Institution</i>	751	818	67	8.92%
713000	<i>Amusement, Gambling, and Recreation Industries</i>	7,421	7,795	374	5.04%
720000	Accommodation and Food Services	107,815	97,350	-10,465	-9.71%
721000	<i>Accommodation, including Hotels and Motels</i>	11,419	10,069	-1,350	-11.82%
721100	Traveler Accommodation	10,851	9,509	-1,342	-12.37%
721200	RV (Recreational Vehicle) Parks and Recreational Camps	438	442	4	0.91%
721300	Rooming and Boarding Houses	130	118	-12	-9.23%
722000	<i>Food Services and Drinking Places</i>	96,396	87,281	-9,115	-9.46%
722300	Special Food Services	5,026	3,935	-1,091	-21.71%
722400	Drinking Places (Alcoholic Beverages)	964	723	-241	-25.00%
722500	Restaurants and Other Eating Places	90,406	82,623	-7,783	-8.61%
102700	OTHER SERVICES (EXCEPT GOVERNMENT)	73,132	74,349	1,217	1.66%
811000	<i>Repair and Maintenance</i>	11,099	11,437	338	3.05%
811100	Automotive Repair and Maintenance	6,984	7,236	252	3.61%
811200	Electronic and Precision Equipment Repair and Maintenance	986	1,025	39	3.96%
811300	Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance		2,612	91	3.61%
811400	Personal and Household Goods Repair and Maintenance	608	564	-44	-7.24%
812000	<i>Personal and Laundry Services</i>	7,642	7,119	-523	-6.84%
812100	Personal Care Services	2,863	2,836	-27	-0.94%

2020-2022 Arkansas Statewide Industry Projections

NAICS Code	NAICS Title	2020 Estimated Employment	2022 Projected Employment	Numeric Change	Percent Change
812200	Death Care Services	1,511	1,473	-38	-2.51%
812300	Drycleaning and Laundry Services	2,133	1,753	-380	-17.82%
812900	Other Personal Services	1,135	1,057	-78	-6.87%
813000	<i>Religious, Grantmaking, Civic, Professional, and Similar Organizations</i>	47,254	48,974	1,720	3.64%
813100	Religious Organizations	34,162	34,943	781	2.29%
813200	Grantmaking and Giving Services	3,490	4,015	525	15.04%
813300	Social Advocacy Organizations	5,522	6,056	534	9.67%
813400	Civic and Social Organizations	1,134	931	-203	-17.90%
813900	Business, Professional, Labor, Political, and Similar Organizations	2,946	3,029	83	2.82%
814000	<i>Private Households</i>	<i>7,137</i>	<i>6,819</i>	<i>-318</i>	<i>-4.46%</i>
102800	GOVERNMENT	94,013	94,816	803	0.85%
910000	<i>Total Federal Government Employment</i>	20,839	21,033	194	0.93%
491100	Postal Service	5,512	5,381	-131	-2.38%
999100	Federal Government, Excluding Post Office	15,327	15,652	325	2.12%
999200	State Government, Excluding Education and Hospitals	31,416	30,870	-546	-1.74%
999300	Local Government, Excluding Education and Hospitals	41,758	42,913	1,155	2.77%

EXPLANATION OF OCCUPATIONAL PROJECTIONS DATA ARKANSAS-STATEWIDE 2020-2022

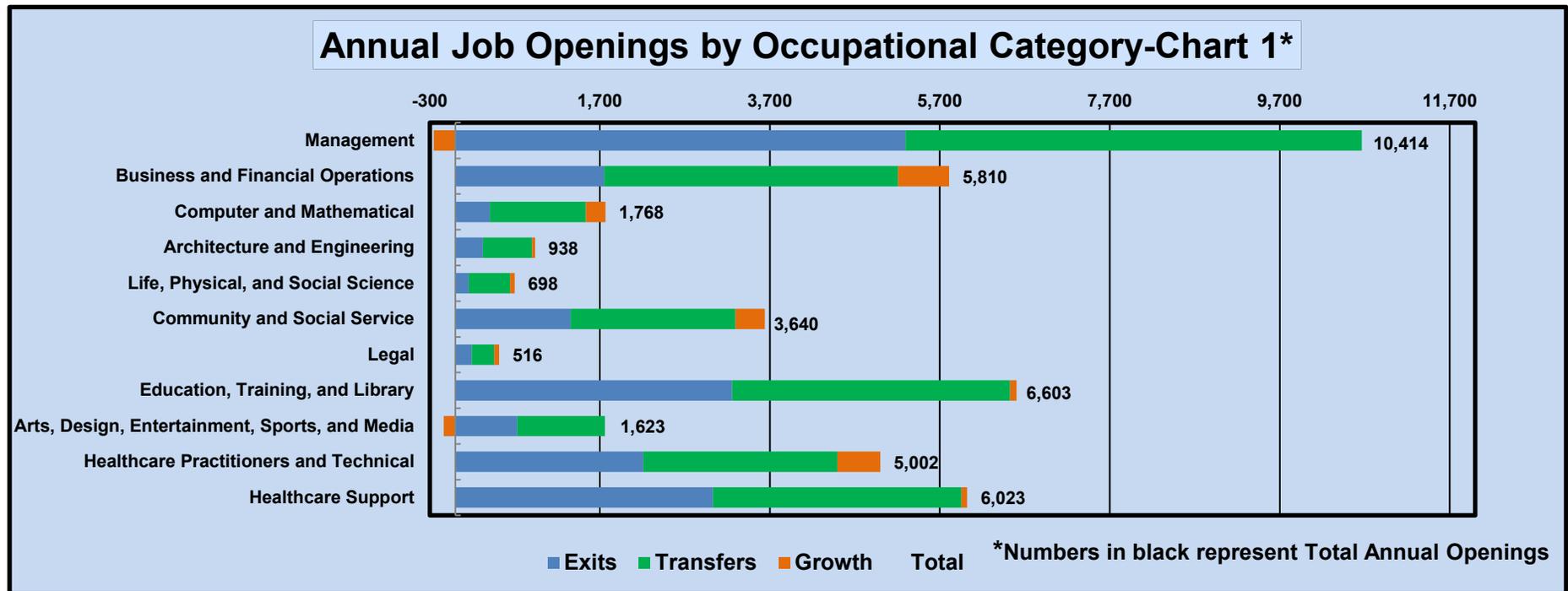
Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/ Training Codes
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	
The occupational code based on the Standard Occupational Classification (SOC) Coding and Title Structure	The occupational title based on the Standard Occupational Classification (SOC) Coding and Title Structure	An estimate of the number of jobs in an occupation in 2020	The projected number of jobs expected to be in an occupation in 2022	Total number of jobs an occupation is expected to gain or lose over the 2020 to 2022 period	Percent change in the number of jobs in an occupation over the 2020 to 2022 period	Average number of annual job openings expected to be created during the projection period due to those leaving the workforce for four months or more	Average number of annual job openings expected to be created during the projection period due to those transferring to an occupation in a different SOC Major Group	Average number of annual job openings expected to be created during the projection period due to the gain or decline of jobs in an occupation	Average number of annual job openings expected to be created during the projection period due to employment growth and separations	Level of training needed by most workers to become fully qualified in the occupation according to the Bureau of Labor Statistics. See page 89 for definitions.

2020-2022 Arkansas Statewide Occupational Projections by Major Group

Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings	
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total
00-0000	Total, All Occupations	1,431,344	1,420,248	-11,096	-0.78%	61,704	82,730	-5,548	138,886
11-0000	Management Occupations	133,807	133,304	-503	-0.38%	5,298	5,368	-252	10,414
13-0000	Business and Financial Operations Occupations	62,348	63,549	1,201	1.93%	1,752	3,458	600	5,810
15-0000	Computer and Mathematical Occupations	24,144	24,608	464	1.92%	408	1,128	232	1,768
17-0000	Architecture and Engineering Occupations	13,104	13,173	69	0.53%	324	580	34	938
19-0000	Life, Physical, and Social Science Occupations	7,871	7,976	105	1.33%	158	488	52	698
21-0000	Community and Social Service Occupations	33,816	34,502	686	2.03%	1,355	1,942	343	3,640
23-0000	Legal Occupations	7,300	7,417	117	1.60%	192	266	58	516
25-0000	Education, Training, and Library Occupations	83,773	83,923	150	0.18%	3,256	3,272	75	6,603
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	18,237	17,964	-273	-1.50%	730	1,029	-136	1,623
29-0000	Healthcare Practitioners and Technical Occupations	85,006	86,019	1,013	1.19%	2,212	2,284	506	5,002
31-0000	Healthcare Support Occupations	55,580	55,714	134	0.24%	3,030	2,926	67	6,023
33-0000	Protective Service Occupations	28,324	28,610	286	1.01%	1,132	1,460	143	2,735
35-0000	Food Preparation and Serving Related Occupations	110,587	101,991	-8,596	-7.77%	7,743	9,462	-4,298	12,907
37-0000	Building and Grounds Cleaning and Maintenance Occupations	48,431	48,461	30	0.06%	2,742	3,041	15	5,798
39-0000	Personal Care and Service Occupations	31,283	30,610	-673	-2.15%	2,130	2,177	-336	3,971
41-0000	Sales and Related Occupations	135,958	134,339	-1,619	-1.19%	6,930	9,498	-810	15,618
43-0000	Office and Administrative Support Occupations	165,319	164,602	-717	-0.43%	7,838	9,314	-358	16,794
45-0000	Farming, Fishing, and Forestry Occupations	17,761	17,494	-267	-1.50%	703	1,804	-134	2,373
47-0000	Construction and Extraction Occupations	52,359	53,179	820	1.57%	1,590	3,430	410	5,430
49-0000	Installation, Maintenance, and Repair Occupations	61,080	62,000	920	1.51%	1,895	3,406	460	5,761
51-0000	Production Occupations	117,224	113,899	-3,325	-2.84%	4,280	7,435	-1,662	10,053
53-0000	Transportation and Material Moving Occupations	138,032	136,914	-1,118	-0.81%	6,005	8,961	-559	14,407

Occupational Outlook

The Arkansas labor market is expected to see a decline of 11,096 jobs over the 2020-2022 projection period, a decrease of 0.78 percent. Despite the decline, job opportunities for recent graduates and other job seekers are still projected to be available. There is expected to be 138,886 total annual job openings during the projection period, with 61,704 openings available due to employees exiting the workforce. Another 82,730 are estimated to be available due to employees changing jobs, while 5,548 would be lost due to the decline in the economy. Thirteen major occupational groups are estimating gains, while nine are expecting job losses.



The **Management Occupations** major group is projected to lose 503 jobs, or 0.38 percent of its workforce. During the projection period, 10,414 annual job openings are estimated to be available, with 5,298 due to employees leaving the workforce and 5,368 for those changing jobs. The occupational group is forecast to lose 252 annually due to the loss of jobs. Driving the decline is Farmers, Ranchers, and Other Agricultural Managers, expected to lose 1,356 jobs, third highest in the state. Lodging Managers could be the fastest declining occupation in the major group, cutting 9.66 percent from its workforce. On the positive side, Medical and Health Services Managers, could see a gain of 292 jobs. In all, three occupations in the major group are among the ten highest growing in the state.

The **Business and Financial Operations Occupations** major group is estimated to gain 1,201 jobs during the projection period. Of the 5,810 annual job openings, 1,752 could come from employees exiting the workforce, while 3,458 would come from changing jobs. Another 600 job openings would be related to growth and expansion. *Business Operations Specialists* is slated to add 747 jobs. Within this group, Fundraisers is

forecasted to be the fastest growing occupation in the state, increasing its workforce by 11.62 percent. Accountants and Auditors is predicted to add 209 new jobs by March 2022.

The **Computer and Mathematical Occupations** major group is expected to gain 464 jobs. With 1,768 annual job openings, 408 is set to come from employees leaving the workforce, 1,128 from those changing jobs, and 232 from growth and expansion. Much of the gain is projected to occur in the *Computer Occupations* occupational family, adding 429 jobs. Driving this growth is Software Developers and Software Quality Assurance Analysts and Testers, with 240 new jobs, placing among the ten highest growing occupations in the state. Information Security Analysts is projected to be fifth in percent growth, increasing its workforce by 6.37 percent. *Mathematical Science Occupations* is estimated to add an additional 35 jobs to its workforce.

The **Architecture and Engineering Occupations** major group is predicted to add 69 new jobs between first quarter 2020 and first quarter 2022. The major group is estimated to have 938 annual job openings, of which 324 would be from those exiting the workforce and 580 from those transferring to other occupational groups. Another 34 jobs are related to growth and expansion. *Engineers* is projected to add 59 jobs to its workforce. Driving this growth is Civil Engineers, which is estimated to add 21 jobs during the projection period. On the negative side of the job market, Electrical and Electronics Engineering Technicians could see a reduction of 24 jobs, or 4.55 percent of its workforce.

The **Life, Physical, and Social Science Occupations** could see an increase of 105 jobs during the projection period. Of 698 total annual openings, 158 is slated to come from employees leaving the workforce, while 488 would be associated with employees changing jobs. Another 52 jobs are due to growth and expansion. The *Life Scientists* occupational family is predicted to see a gain of 45 jobs, while *Life, Physical, and Social Science Technicians* is projected to add 43 new jobs to its workforce. The biggest gain in this major group is Chemical Technicians, estimated to add 19 jobs, or 2.85 percent to its workforce.

The **Community and Social Service Occupations** major group is projected to increase by 686 employees during the projection period. The occupational group is estimated to have 3,640 annual job openings, with 1,355 coming from employees leaving the workforce, 1,942 coming from employees changing jobs, and 343 related to growth and expansion. *Religious Workers* drives the growth in the major group, adding an estimated 443 new jobs. Clergy is projected to be the top growing occupation in the state with 312 new jobs. While this occupation was affected by the restriction of in-person worship services during the early months of the pandemic, it also presents the ability to work from home, ministering to people virtually or by phone. Social and Human Service Assistants could also see strong growth, increasing by 108 new jobs.

The **Legal Occupations** major group is forecasted to increase staffing by 117 jobs between first quarter 2020 and first quarter 2022. Of the 516 total annual openings, 192 could come from staff leaving the workforce, while 266 would be related to job transfers. Growth and expansion would account for 58 annual job openings. *Legal Support Workers* is slated to add 68 jobs to its workforce. Paralegals leads all occupations in the major group with an anticipated increase of 64 jobs, a 3.06 percent rise. Lawyers is also estimating a nice gain, with 53 new jobs on the horizon.

The **Education, Training, and Library Occupations** major group could experience a mixed outlook, gaining just 150 new jobs between 2020 and 2022. With 6,603 job openings annually, 3,256 would come from those leaving the workforce, 3,272 from job change, and 75 from growth and expansion. Despite a year of intermittent periods of teaching virtually, *Preschool, Primary, Secondary, and Special Education School Teachers* could see a gain of 301 jobs. Elementary School Teachers, Except Special Education and Secondary School Teachers, Except Special and

Career/Technical Education, are estimated to see gains of 116 and 111 new jobs, respectively. *Postsecondary Teachers* could also see good growth, increasing by 151. One downside of the pandemic is in Substitute Teachers, Short-Term, which is slated to experience a loss of 291 jobs during the projection period, placing in the Top 20 Declining Occupations list.

The **Arts, Design, Entertainment, Sports, and Media Occupations** major group is forecasted to lose 273 jobs during the projection period. Of the 1,623 annual job openings, 730 would come from employees leaving the workforce and 1,029 is connected to those who change jobs. The decline in the job market could reduce staffing by 136 annually. *Entertainers and Performers, Sports and Related Workers* is estimated to lose 101 jobs. Driving the decline is Athletes and Sports Competitors, which is predicted to lose 56 jobs, or 21.05 percent of its workforce, becoming the third fastest declining occupation in the state. Every subsector in the major group is slated to experience loss of jobs. Public Relations Specialists is one of the bright spots in the major group, anticipated to add 43 jobs to its workforce.

The **Healthcare Practitioners and Technical Occupations** major group is projected to see a net gain of 1,013 jobs. During the projection period, 5,002 annual job openings are anticipated, with 2,212 coming from employees leaving the workforce, 2,284 coming from job transfers, and 506 from growth and expansion. The *Health Diagnosing and Treating Practitioners* occupational family is estimated to add 716 new jobs. Driving this growth is Nurse Practitioners, slated to have the strongest outlook, gaining 266 new jobs, a 9.80 percent increase, placing the occupation fifth in numeric change as well as the second fastest growing occupation in the state. Registered Nurses is also set to experience strong growth, adding 169 new jobs. Physician Assistants is projected to increase by 5.61 percent, placing among the ten fastest growing occupations in the state.

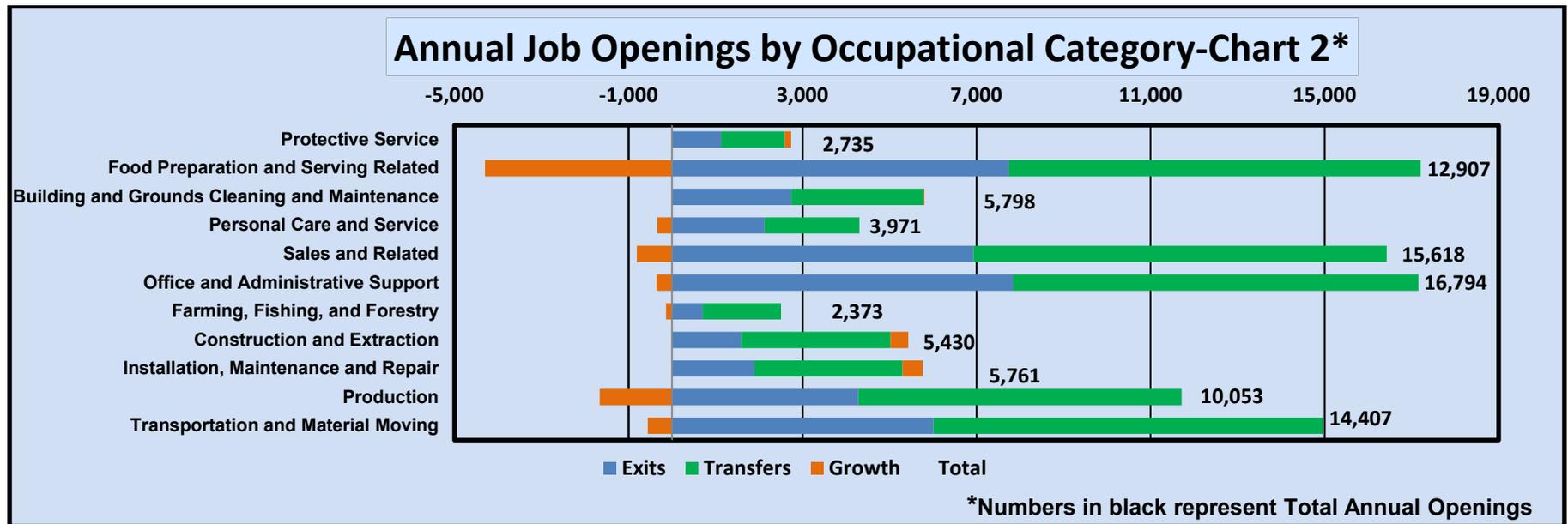
The **Healthcare Support Occupations** major group could see a mixed outlook during the projection period but is predicted to add 134 jobs to the labor market. With 6,023 annual job openings, 3,030 are estimated to come from employees who leave the workforce, while 2,926 from employees changing jobs. Around 67 job openings are related to growth and expansion. Nursing Assistants could experience a tough outlook, with a net loss of 139 jobs. Nursing home facilities are seeing a loss of nursing assistant positions and turning many of these positions into home health and personal care positions. Home Health and Personal Care Aides is expected to add 21 jobs, many of which may have CNA certifications. Medical Assistants and Dental Assistants are forecasted to see gains of 113 and 66 jobs, respectively.

The **Protective Service Occupations** major group is expected to add 286 new jobs to its workforce. The occupational group is estimated to have 2,735 annual job openings during the projection period. Of these, 1,132 would come from employees leaving the workforce, 1,460 from employees changing jobs, and 143 from growth and expansion. *Law Enforcement Workers* is forecasted to experience a net gain of 97 jobs, while *Supervisors of Protective Service Workers* is slated to gain 96. Police and Sheriff's Patrol Officers could make the Top 20 Growing Occupations list, adding 171 jobs to its ranks, but Correctional Officers and Jailers could see a reduction of 82.

Food Preparation and Serving Related Occupations is projected to experience the toughest outlook among occupational major groups, losing an estimated 8,596 jobs between first quarter 2020 and first quarter 2022. The occupational group will still have opportunities with 12,907 annual job openings, of which 7,743 are estimated to be available due to employees leaving the workforce, while 9,462 would come from employees changing jobs. Opportunities could, however, be reduced with the loss of 4,298 annually. However, much of the loss may have already occurred, during the early months of the pandemic. While drive thru and pick up sales are through the roof, in-door dining is still waning and will likely struggle to get back to normal. Six occupations made the Top 20 Declining Occupations list, including the top two. Fast Food and Counter Workers leads with a decline of 3,143. All four occupational families could see major losses during the projection period, averaging 7.90 percent.

The **Building and Grounds Cleaning and Maintenance Occupations** is estimated to experience a net gain of 30 jobs during the projection period. With 5,798 annual job openings, 2,742 would be associated with employees leaving the workforce, while 3,041 would be connected to those changing jobs. Growth and expansion would account for only 15 annual job openings. The *Building Cleaning and Pest Control Workers* occupational family is forecasted to decline by 293. Driving this loss is Maids and Housekeeping Cleaners, which is projected to lose 629 jobs between 2020 and 2022, placing among the ten highest declining occupations. Janitors and Cleaners, Except Maids and Housekeeping Cleaners could offset this loss some, gaining 224 jobs, placing among the ten highest growing occupations. Pest Control Workers is anticipated to raise employment by 5.43 percent, placing it among the ten fastest growing occupations in the state. The *Grounds Maintenance Workers* occupational family is predicted to add 244 jobs to its own workforce, helping to offset the loss in *Building Cleaning and Pest Control Workers*.

The **Personal Care and Service Occupations** major group is one of the hardest affected by the pandemic, estimated to experience a reduction of 673 jobs during the projection period. Despite the loss, 3,971 jobs are estimated to be available annually. Of these, 2,130 are forecasted to come from employees leaving the workforce, while 2,177 would be connected to employees changing jobs. The decline in jobs will account for 336 annual job losses. *Entertainment Attendants and Related Workers* is slated to see a significant loss, as entertainment venues were not having in-person programs during the pandemic. The occupational family could see a loss of 386 jobs, or 12.27 percent of its workforce. Driving the decline is Ushers, Lobby Attendants, and Ticket Takers, expected to lose 440 jobs, or 41.59 percent of its workforce, becoming the fastest declining occupation for the 2020-2022 projection period. Childcare Workers is also forecast to see a reduction of jobs between first quarter 2020 and first quarter 2022, losing an estimated 164 jobs. Many day care facilities shut down in the second quarter forcing single parents to file unemployment.



The **Sales and Related Occupations** major group could see a mixed outlook, losing a projected 1,619 jobs between first quarter 2020 and first quarter 2022. Despite this, 15,618 jobs openings are expected annually. Of these, 6,930 could come from employees leaving the workforce, while

9,498 would come from those changing jobs. Job openings could decline by an average 810 annually due to the loss of jobs. Driving the decline is the *Retail Sales Workers* occupational family, with an anticipated loss of 1,721 jobs. Retail Salespersons is estimated to lose 1,293 jobs during the projection period, while Cashiers could see a reduction of 549 of its ranks, both placing among the ten highest declining occupations in the state. Travel Agents could lose nearly a third of its workforce, with a loss of 79 jobs as international and domestic travel was curtailed during the pandemic and placing as the second fastest declining occupation in the state. However, there are a few bright spots in the **Sales and Related Occupations** major group. Insurance Sales Agents could see a strong growth, projected to increase by 305, while Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products is slated to gain 218 jobs, both placing among the ten highest growing occupations.

The **Office and Administrative Support Occupations** is predicted to lose 717 jobs during the projection period. The occupational group is still estimated to have 16,794 annual job openings. Of these, 7,838 are connected to employees leaving the workforce, while 9,314 are associated with those changing jobs. With the decline in jobs, 358 annual job openings would be lost as a result. The *Secretaries and Administrative Assistants* occupational family is slated to cut 343 jobs from the workforce, while *Other Office and Administrative Support Workers* family could experience a net loss of 279. Office Clerks, General is predicted to lose 344 jobs between first quarter 2020 and first quarter 2022. Hotel, Motel, and Resort Desk Clerks could also see a tough outlook, with 318 jobs being cut, or 12.67 percent of its workforce. One positive outlook for this major group is in Customer Service Representatives, which is projected to add 142 new jobs to its workforce.

The **Farming, Fishing, and Forestry Occupations** major group is forecasted to lose 267 jobs, or 1.50 percent of its workforce during the projection period. Overall, 2,373 annual job openings are expected, with 703 connected to employees leaving the workforce and 1,804 from employees changing jobs. The job loss could account for 134 less job openings. *Forest, Conservation, and Logging Workers* is set to lose 141 jobs, while *Agricultural Workers* could lose 112. Farmworkers, Farm, Ranch, and Aquacultural Animals is set to lose 68 jobs, while Logging Equipment Operators is predicted to cut 63 from its workforce.

The **Construction and Extraction Occupations** major group is projected to add 820 jobs to its workforce. With 5,430 annual job openings, 1,590 would be from employees leaving the workforce, while 3,430 would be associated with employees changing jobs. Another 410 annual job openings would be from growth and expansion. Much of the growth in the major group is likely to occur in the *Construction Trades Workers* occupational family, increasing employment by 734 jobs. Electricians are slated to add 282 jobs to its ranks, placing fifth in numeric growth, while Plumbers, Pipefitters, and Steamfitters could add an additional 153 jobs to its own workforce. Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters is projected to be the fourth fastest growing occupation, increasing by 6.53 percent. In all, four occupations in this major group made the Top 20 Fastest Growing Occupations list. On the negative side of the job market, Service Unit Operators, Oil, Gas, and Mining is predicted to lose 94 jobs, or 12.84 percent of its workforce. Derrick Operators, Oil and Gas and Roustabouts, Oil and Gas could also lose 18.52 and 16.26 percent of each of its respective workforces.

The **Installation, Maintenance, and Repair Occupations** major group is estimated to increase staffing by 920 new jobs. During the projection period, 5,761 annual job openings are expected to be available. Of these, 1,895 would be connected to employees leaving the workforce, 3,406 from those changing jobs, and 460 due to growth and expansion. The *Other Installation, Maintenance, and Repair Occupations* occupational family drives the growth in the major group, with an anticipated gain of 640 jobs. Industrial Machinery Mechanics leads all occupations with 193 new jobs, while Heating, Air Conditioning, and Refrigeration Mechanics and Installers is forecasted to raise its workforce by 151 jobs. Farm Equipment Mechanics and Service Technicians is estimated to be the third fastest growing occupation, increasing its employment by 7.14 percent. Coin,

Vending, and Amusement Machine Servicers and Repairers is projected to make the Top 20 Fastest Declining Occupations list, with a decline of 11.67 percent.

The **Production Occupations** major group is projected to lose 3,325 jobs between first quarter 2020 and first quarter 2022. Despite the decline, 10,053 job openings are anticipated annually. Of these, 4,280 could come from employees leaving the workforce, while 7,435 would be connected to employees changing jobs. The job decline will account for 1,662 less job openings annually. The *Assemblers and Fabricators* occupational family is forecasted to lose 1,054 jobs during the projection period. Taking the brunt of those jobs is Miscellaneous Assemblers and Fabricators, which is slated to cut 899 jobs, or 6.85 percent of its workforce. *Other Production Occupations* is slated to cut 916 jobs. Inspectors, Testers, Sorters, Samplers, and Weighers is estimated to lose 351 jobs during the projection period. Eight occupations made the Top 20 Fastest Declining Occupations list with Pressers, Textile, Garment, and Related Materials leading the major group with a 20.29 percent decline, fifth fastest declining occupation in the state. All but one occupational family in **Production Occupations** is estimated to see job loss. The *Food Processing Workers* occupational family could see the only bright spot in **Production Occupations** with a gain of 130. Meat, Poultry, and Fish Cutters and Trimmers is one positive growing occupation, anticipated to gain 84 new jobs.

The **Transportation and Material Moving Occupations** major group is set to experience a decline of 1,118 jobs between 2020 and 2022. With 14,407 annual job openings, 6,005 is associated with people leaving the workforce, 8,961 connected to job change, and 559 slated to be reduced annually due to the job decline. The *Motor Vehicle Operators* family is estimated to lose 1,244 jobs, or 1.97 percent of its workforce. Light Truck or Delivery Services Drivers could lose 642 jobs during the projection period, cutting 6.74 percent of its workforce. One positive highlight is in the *Material Moving Workers* occupational family, expected to gain 131 jobs by March 2022. Stockers and Order Fillers is estimated to be the top growing occupation in the major group, adding 126 jobs to the job market.

Top 20 Growing Occupations by Numeric Change

Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings	
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total
21-2011	Clergy	11,962	12,274	312	2.61%	516	623	156	1,295
41-3021	Insurance Sales Agents	10,477	10,782	305	2.91%	354	536	152	1,042
11-9111	Medical and Health Services Managers	6,050	6,342	292	4.83%	155	272	146	573
47-2111	Electricians	6,160	6,442	282	4.58%	178	443	141	762
29-1171	Nurse Practitioners	2,714	2,980	266	9.80%	59	82	133	274
11-3031	Financial Managers	5,515	5,771	256	4.64%	115	252	128	495
11-1021	General and Operations Managers	21,963	22,214	251	1.14%	448	1,192	126	1,766
15-1256	Software Developers and Software Quality Assurance Analysts and Testers	5,775	6,015	240	4.16%	84	278	120	482
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	20,026	20,250	224	1.12%	1,230	1,219	112	2,561
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	12,633	12,851	218	1.73%	374	768	109	1,251
37-3011	Landscaping and Groundskeeping Workers	8,247	8,461	214	2.59%	354	629	107	1,090
13-2011	Accountants and Auditors	8,918	9,127	209	2.34%	254	481	104	839
13-1111	Management Analysts	6,973	7,166	193	2.77%	228	367	96	691
49-9041	Industrial Machinery Mechanics	6,967	7,160	193	2.77%	218	345	96	659
13-1198	Project Management Specialists and Business Operations Specialists, All Other	8,964	9,140	176	1.96%	266	510	88	864
33-3051	Police and Sheriff's Patrol Officers	6,297	6,468	171	2.72%	153	272	86	511
29-1141	Registered Nurses	26,495	26,664	169	0.64%	720	553	84	1,357
13-1161	Market Research Analysts and Marketing Specialists	4,852	5,013	161	3.32%	118	320	80	518
47-2152	Plumbers, Pipefitters, and Steamfitters	3,294	3,447	153	4.64%	96	225	76	397
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	3,094	3,245	151	4.88%	84	186	76	346

Top 20 Fastest Growing Occupations by Percent Change (Minimum Employment of 50)

Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings	
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total
13-1131	Fundraisers	1,093	1,220	127	11.62%	35	69	64	168
29-1171	Nurse Practitioners	2,714	2,980	266	9.80%	59	82	133	274
49-3041	Farm Equipment Mechanics and Service Technicians	826	885	59	7.14%	26	49	30	105
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	490	522	32	6.53%	16	42	16	74
15-1212	Information Security Analysts	816	868	52	6.37%	12	42	26	80
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers	53	56	3	5.66%	2	4	2	8
29-1071	Physician Assistants	535	565	30	5.61%	8	20	15	43
37-2021	Pest Control Workers	1,160	1,223	63	5.43%	36	112	32	180
47-2132	Insulation Workers, Mechanical	166	175	9	5.42%	4	12	4	20
47-4041	Hazardous Materials Removal Workers	150	158	8	5.33%	6	11	4	21
19-1042	Medical Scientists, Except Epidemiologists	152	160	8	5.26%	2	10	4	16
47-2151	Pipelayers	365	384	19	5.21%	10	25	10	45
49-9011	Mechanical Door Repairers	542	570	28	5.17%	14	28	14	56
25-4012	Curators	97	102	5	5.15%	5	5	2	12
19-1013	Soil and Plant Scientists	98	103	5	5.10%	2	8	2	12
43-5011	Cargo and Freight Agents	808	849	41	5.07%	33	38	20	91
25-4013	Museum Technicians and Conservators	61	64	3	4.92%	3	4	2	9
43-4131	Loan Interviewers and Clerks	2,130	2,234	104	4.88%	72	118	52	242
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	3,094	3,245	151	4.88%	84	186	76	346
11-9111	Medical and Health Services Managers	6,050	6,342	292	4.83%	155	272	146	573

Top 20 Occupations by Annual Exits

Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings	
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total
35-3023	Fast Food and Counter Workers	40,394	37,251	-3,143	-7.78%	3,622	3,460	-1,572	5,510
11-9013	Farmers, Ranchers, and Other Agricultural Managers	54,168	52,812	-1,356	-2.50%	3,458	1,594	-678	4,374
41-2011	Cashiers	28,567	28,018	-549	-1.92%	2,383	2,390	-274	4,499
41-2031	Retail Salespersons	38,185	36,892	-1,293	-3.39%	2,104	2,810	-646	4,268
53-3032	Heavy and Tractor-Trailer Truck Drivers	39,567	39,287	-280	-0.71%	1,616	2,359	-140	3,835
43-9061	Office Clerks, General	28,538	28,194	-344	-1.21%	1,554	1,546	-172	2,928
31-1120	Home Health and Personal Care Aides	22,842	22,863	21	0.09%	1,410	1,165	10	2,585
35-3031	Waiters and Waitresses	19,175	17,378	-1,797	-9.37%	1,270	1,928	-898	2,300
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	20,026	20,250	224	1.12%	1,230	1,219	112	2,561
31-1131	Nursing Assistants	18,760	18,621	-139	-0.74%	1,002	909	-70	1,841
53-7065	Stockers and Order Fillers	19,217	19,343	126	0.66%	946	1,334	63	2,343
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	21,694	21,565	-129	-0.59%	928	1,683	-64	2,547
39-9011	Childcare Workers	11,503	11,339	-164	-1.43%	846	717	-82	1,481
43-3031	Bookkeeping, Accounting, and Auditing Clerks	13,722	13,652	-70	-0.51%	823	622	-35	1,410
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	15,393	15,128	-265	-1.72%	784	772	-132	1,424
43-4051	Customer Service Representatives	16,752	16,894	142	0.85%	782	1,222	71	2,075
37-2012	Maids and Housekeeping Cleaners	11,612	10,983	-629	-5.42%	781	615	-314	1,082
29-1141	Registered Nurses	26,495	26,664	169	0.64%	720	553	84	1,357
43-4171	Receptionists and Information Clerks	11,144	11,250	106	0.95%	632	714	53	1,399
53-3058	Passenger Vehicle Drivers, Except Bus Drivers, Transit and Intercity	9,921	9,842	-79	-0.80%	620	418	-40	998

Top 20 Occupations by Annual Transfers

Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings	
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total
35-3023	Fast Food and Counter Workers	40,394	37,251	-3,143	-7.78%	3,622	3,460	-1,572	5,510
41-2031	Retail Salespersons	38,185	36,892	-1,293	-3.39%	2,104	2,810	-646	4,268
41-2011	Cashiers	28,567	28,018	-549	-1.92%	2,383	2,390	-274	4,499
53-3032	Heavy and Tractor-Trailer Truck Drivers	39,567	39,287	-280	-0.71%	1,616	2,359	-140	3,835
35-3031	Waiters and Waitresses	19,175	17,378	-1,797	-9.37%	1,270	1,928	-898	2,300
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	21,694	21,565	-129	-0.59%	928	1,683	-64	2,547
11-9013	Farmers, Ranchers, and Other Agricultural Managers	54,168	52,812	-1,356	-2.50%	3,458	1,594	-678	4,374
43-9061	Office Clerks, General	28,538	28,194	-344	-1.21%	1,554	1,546	-172	2,928
53-7065	Stockers and Order Fillers	19,217	19,343	126	0.66%	946	1,334	63	2,343
43-4051	Customer Service Representatives	16,752	16,894	142	0.85%	782	1,222	71	2,075
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	20,026	20,250	224	1.12%	1,230	1,219	112	2,561
11-1021	General and Operations Managers	21,963	22,214	251	1.14%	448	1,192	126	1,766
31-1120	Home Health and Personal Care Aides	22,842	22,863	21	0.09%	1,410	1,165	10	2,585
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	12,486	11,490	-996	-7.98%	532	1,110	-498	1,144
41-1011	First-Line Supervisors of Retail Sales Workers	15,563	15,201	-362	-2.33%	524	966	-181	1,309
31-1131	Nursing Assistants	18,760	18,621	-139	-0.74%	1,002	909	-70	1,841
43-1011	First-Line Supervisors of Office and Administrative Support Workers	14,497	14,484	-13	-0.09%	537	817	-6	1,348
51-2090	Miscellaneous Assemblers and Fabricators	13,133	12,234	-899	-6.85%	478	800	-450	828
35-2014	Cooks, Restaurant	10,870	10,204	-666	-6.13%	566	797	-333	1,030
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	15,393	15,128	-265	-1.72%	784	772	-132	1,424

Top 20 Occupations by Total Annual Openings

Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings	
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total
35-3023	Fast Food and Counter Workers	40,394	37,251	-3,143	-7.78%	3,622	3,460	-1,572	5,510
41-2011	Cashiers	28,567	28,018	-549	-1.92%	2,383	2,390	-274	4,499
11-9013	Farmers, Ranchers, and Other Agricultural Managers	54,168	52,812	-1,356	-2.50%	3,458	1,594	-678	4,374
41-2031	Retail Salespersons	38,185	36,892	-1,293	-3.39%	2,104	2,810	-646	4,268
53-3032	Heavy and Tractor-Trailer Truck Drivers	39,567	39,287	-280	-0.71%	1,616	2,359	-140	3,835
43-9061	Office Clerks, General	28,538	28,194	-344	-1.21%	1,554	1,546	-172	2,928
31-1120	Home Health and Personal Care Aides	22,842	22,863	21	0.09%	1,410	1,165	10	2,585
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	20,026	20,250	224	1.12%	1,230	1,219	112	2,561
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	21,694	21,565	-129	-0.59%	928	1,683	-64	2,547
53-7065	Stockers and Order Fillers	19,217	19,343	126	0.66%	946	1,334	63	2,343
35-3031	Waiters and Waitresses	19,175	17,378	-1,797	-9.37%	1,270	1,928	-898	2,300
43-4051	Customer Service Representatives	16,752	16,894	142	0.85%	782	1,222	71	2,075
31-1131	Nursing Assistants	18,760	18,621	-139	-0.74%	1,002	909	-70	1,841
11-1021	General and Operations Managers	21,963	22,214	251	1.14%	448	1,192	126	1,766
39-9011	Childcare Workers	11,503	11,339	-164	-1.43%	846	717	-82	1,481
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	15,393	15,128	-265	-1.72%	784	772	-132	1,424
43-3031	Bookkeeping, Accounting, and Auditing Clerks	13,722	13,652	-70	-0.51%	823	622	-35	1,410
43-4171	Receptionists and Information Clerks	11,144	11,250	106	0.95%	632	714	53	1,399
29-1141	Registered Nurses	26,495	26,664	169	0.64%	720	553	84	1,357
43-1011	First-Line Supervisors of Office and Administrative Support Workers	14,497	14,484	-13	-0.09%	537	817	-6	1,348

Top 20 Declining Occupations by Numeric Change

Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings	
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total
35-3023	Fast Food and Counter Workers	40,394	37,251	-3,143	-7.78%	3,622	3,460	-1,572	5,510
35-3031	Waiters and Waitresses	19,175	17,378	-1,797	-9.37%	1,270	1,928	-898	2,300
11-9013	Farmers, Ranchers, and Other Agricultural Managers	54,168	52,812	-1,356	-2.50%	3,458	1,594	-678	4,374
41-2031	Retail Salespersons	38,185	36,892	-1,293	-3.39%	2,104	2,810	-646	4,268
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	12,486	11,490	-996	-7.98%	532	1,110	-498	1,144
51-2090	Miscellaneous Assemblers and Fabricators	13,133	12,234	-899	-6.85%	478	800	-450	828
35-2014	Cooks, Restaurant	10,870	10,204	-666	-6.13%	566	797	-333	1,030
53-3033	Light Truck or Delivery Services Drivers	9,529	8,887	-642	-6.74%	378	551	-321	608
37-2012	Maids and Housekeeping Cleaners	11,612	10,983	-629	-5.42%	781	615	-314	1,082
41-2011	Cashiers	28,567	28,018	-549	-1.92%	2,383	2,390	-274	4,499
35-2011	Cooks, Fast Food	3,930	3,452	-478	-12.16%	198	279	-239	238
39-3031	Ushers, Lobby Attendants, and Ticket Takers	1,058	618	-440	-41.59%	110	110	-220	0
41-1011	First-Line Supervisors of Retail Sales Workers	15,563	15,201	-362	-2.33%	524	966	-181	1,309
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	6,582	6,231	-351	-5.33%	236	456	-176	516
43-9061	Office Clerks, General	28,538	28,194	-344	-1.21%	1,554	1,546	-172	2,928
35-9021	Dishwashers	3,324	2,985	-339	-10.20%	238	228	-170	296
43-4081	Hotel, Motel, and Resort Desk Clerks	2,510	2,192	-318	-12.67%	122	234	-159	197
25-3031	Substitute Teachers, Short-Term	3,903	3,612	-291	-7.46%	220	174	-146	248
51-5112	Printing Press Operators	2,258	1,974	-284	-12.58%	78	128	-142	64
53-3032	Heavy and Tractor-Trailer Truck Drivers	39,567	39,287	-280	-0.71%	1,616	2,359	-140	3,835

Top 20 Fastest Declining Occupations by Percent Change (Numeric Change No Greater than - 5)

Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings	
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total
39-3031	Ushers, Lobby Attendants, and Ticket Takers	1,058	618	-440	-41.59%	110	110	-220	0
41-3041	Travel Agents	239	160	-79	-33.05%	20	20	-40	0
27-2021	Athletes and Sports Competitors	266	210	-56	-21.05%	14	18	-28	4
51-6021	Pressers, Textile, Garment, and Related Materials	276	220	-56	-20.29%	14	14	-28	0
47-5011	Derrick Operators, Oil and Gas	27	22	-5	-18.52%	0	2	-2	0
47-5071	Roustabouts, Oil and Gas	289	242	-47	-16.26%	7	22	-24	5
51-5113	Print Binding and Finishing Workers	329	282	-47	-14.29%	18	19	-24	13
51-9022	Grinding and Polishing Workers, Hand	839	723	-116	-13.83%	24	56	-58	22
51-4071	Foundry Mold and Coremakers	80	69	-11	-13.75%	2	4	-6	0
51-6064	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	279	243	-36	-12.90%	12	11	-18	5
47-5013	Service Unit Operators, Oil, Gas, and Mining	732	638	-94	-12.84%	18	64	-47	35
27-3023	News Analysts, Reporters, and Journalists	347	303	-44	-12.68%	9	23	-22	10
43-4081	Hotel, Motel, and Resort Desk Clerks	2,510	2,192	-318	-12.67%	122	234	-159	197
51-5112	Printing Press Operators	2,258	1,974	-284	-12.58%	78	128	-142	64
51-2021	Coil Winders, Tapers, and Finishers	209	183	-26	-12.44%	8	11	-13	6
27-4032	Film and Video Editors	65	57	-8	-12.31%	2	4	-4	2
35-2011	Cooks, Fast Food	3,930	3,452	-478	-12.16%	198	279	-239	238
51-5111	Prepress Technicians and Workers	166	146	-20	-12.05%	5	12	-10	7
35-3011	Bartenders	1,944	1,714	-230	-11.83%	80	204	-115	169
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	120	106	-14	-11.67%	6	7	-7	6

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Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
00-0000	TOTAL, ALL OCCUPATIONS	1,431,344	1,420,248	-11,096	-0.78%	61,704	82,730	-5,548	138,886			
11-0000	MANAGEMENT OCCUPATIONS	133,807	133,304	-503	-0.38%	5,298	5,368	-252	10,414			
11-1000	Top Executives	26,549	26,815	266	1.00%	568	1,360	133	2,061			
11-1011	Chief Executives	3,236	3,213	-23	-0.71%	85	113	-12	186	BD	5+	None
11-1021	General and Operations Managers	21,963	22,214	251	1.14%	448	1,192	126	1,766	BD	5+	None
11-1031	Legislators	1,350	1,388	38	2.81%	34	55	19	108	BD	<5	None
11-2000	Advertising, Marketing, Promotions, Public Relations, and Sales Managers	4,111	4,151	40	0.97%	86	230	20	336			
11-2011	Advertising and Promotions Managers	115	112	-3	-2.61%	2	8	-2	8	BD	<5	None
11-2021	Marketing Managers	1,398	1,416	18	1.29%	28	79	9	116	BD	5+	None
11-2022	Sales Managers	2,177	2,190	13	0.60%	44	122	6	172	BD	<5	None
11-2030	Public Relations and Fundraising Managers	421	433	12	2.85%	10	21	6	37	BD	5+	None
11-3000	Operations Specialties Managers	15,656	16,019	363	2.32%	328	726	182	1,236			
11-3010	Administrative Services and Facilities Managers	1,916	1,945	29	1.51%	54	84	14	152	BD	<5	None
11-3021	Computer and Information Systems Managers	2,748	2,805	57	2.07%	46	138	28	212	BD	5+	None
11-3031	Financial Managers	5,515	5,771	256	4.64%	115	252	128	495	BD	5+	None
11-3051	Industrial Production Managers	2,012	1,999	-13	-0.65%	38	82	-6	114	BD	5+	None
11-3061	Purchasing Managers	660	666	6	0.91%	15	31	3	49	BD	5+	None
11-3071	Transportation, Storage, and Distribution Managers	1,228	1,239	11	0.90%	25	58	6	89	HS	5+	None
11-3111	Compensation and Benefits Managers	153	152	-1	-0.65%	4	8	0	12	BD	5+	None
11-3121	Human Resources Managers	1,135	1,149	14	1.23%	25	57	7	89	BD	5+	None
11-3131	Training and Development Managers	289	293	4	1.38%	6	16	2	24	BD	5+	None
11-9000	Other Management Occupations	87,491	86,319	-1,172	-1.34%	4,318	3,052	-586	6,784			
11-9013	Farmers, Ranchers, and Other Agricultural Managers	54,168	52,812	-1,356	-2.50%	3,458	1,594	-678	4,374	HS	5+	None
11-9021	Construction Managers	3,550	3,665	115	3.24%	74	150	58	282	BD	None	MTOJT
11-9031	Education Administrators, Preschool and Childcare Center/Program	674	662	-12	-1.78%	16	27	-6	37	BD	<5	None

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Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
11-9032	Education Administrators, Elementary and Secondary School	2,506	2,528	22	0.88%	62	102	11	175	MD	5+	None
11-9033	Education Administrators, Postsecondary	1,606	1,612	6	0.37%	40	66	3	109	MD	<5	None
11-9039	Education Administrators, All Other	647	651	4	0.62%	16	26	2	44	BD	<5	None
11-9041	Architectural and Engineering Managers	910	915	5	0.55%	14	40	2	56	BD	5+	None
11-9051	Food Service Managers	2,636	2,476	-160	-6.07%	74	176	-80	170	HS	<5	None
11-9081	Lodging Managers	994	898	-96	-9.66%	32	58	-48	42	HS	<5	None
11-9111	Medical and Health Services Managers	6,050	6,342	292	4.83%	155	272	146	573	BD	<5	None
11-9121	Natural Sciences Managers	247	251	4	1.62%	4	12	2	18	BD	5+	None
11-9131	Postmasters and Mail Superintendents	186	178	-8	-4.30%	4	8	-4	8	HS	<5	MTOJT
11-9141	Property, Real Estate, and Community Association Managers	2,472	2,509	37	1.50%	93	82	18	193	HS	<5	None
11-9151	Social and Community Service Managers	1,741	1,768	27	1.55%	50	81	14	145	BD	<5	None
11-9161	Emergency Management Directors	149	151	2	1.34%	4	6	1	11	BD	5+	None
11-9171	Funeral Home Managers	304	299	-5	-1.64%	8	12	-2	18	AD	<5	None
11-9198	Personal Service Managers; Entertainment & Recreation Managers, Except Gambling; and Managers, All Other	8,538	8,492	-46	-0.54%	212	342	-23	531	BD	<5	None
11-9199	Managers, All Other	110	106	-4	-3.64%	1	1	-2	0	BD	<5	None
13-0000	BUSINESS AND FINANCIAL OPERATIONS OCCUPATIONS	62,348	63,549	1,201	1.93%	1,752	3,458	600	5,810			
13-1000	Business Operations Specialists	42,069	42,816	747	1.78%	1,210	2,423	374	4,007			
13-1020	Buyers and Purchasing Agents	3,582	3,543	-39	-1.09%	116	216	-20	312	BD	None	MTOJT
13-1031	Claims Adjusters, Examiners, and Investigators	2,001	2,025	24	1.20%	46	98	12	156	HS	None	LTOJT
13-1041	Compliance Officers	2,760	2,799	39	1.41%	72	138	20	230	BD	None	MTOJT
13-1051	Cost Estimators	1,300	1,323	23	1.77%	37	73	12	122	BD	None	MTOJT
13-1071	Human Resources Specialists	4,199	4,213	14	0.33%	116	250	7	373	BD	None	None
13-1075	Labor Relations Specialists	325	324	-1	-0.31%	9	19	0	28	BD	<5	None

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Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
13-1081	Logisticians	1,706	1,750	44	2.58%	37	106	22	165	BD	None	None
13-1111	Management Analysts	6,973	7,166	193	2.77%	228	367	96	691	BD	<5	None
13-1121	Meeting, Convention, and Event Planners	892	872	-20	-2.24%	26	60	-10	76	BD	None	None
13-1131	Fundraisers	1,093	1,220	127	11.62%	35	69	64	168	BD	None	None
13-1141	Compensation, Benefits, and Job Analysis Specialists	686	690	4	0.58%	22	36	2	60	BD	<5	None
13-1151	Training and Development Specialists	2,669	2,677	8	0.30%	83	159	4	246	BD	<5	None
13-1161	Market Research Analysts and Marketing Specialists	4,852	5,013	161	3.32%	118	320	80	518	BD	None	None
13-1198	Project Management Specialists and Business Operations Specialists, All Other	8,964	9,140	176	1.96%	266	510	88	864	BD	None	None
13-2000	Financial Specialists	20,279	20,733	454	2.24%	541	1,036	227	1,804			
13-2011	Accountants and Auditors	8,918	9,127	209	2.34%	254	481	104	839	BD	None	None
13-2020	Property Appraisers and Assessors	620	634	14	2.26%	22	20	7	49	BD	None	LTOJT
13-2031	Budget Analysts	570	570	0	0.00%	15	27	0	42	BD	None	None
13-2041	Credit Analysts	309	313	4	1.29%	6	18	2	26	BD	None	None
13-2052	Personal Financial Advisors	1,128	1,153	25	2.22%	26	51	12	89	BD	None	LTOJT
13-2053	Insurance Underwriters	2,361	2,396	35	1.48%	51	120	18	189	BD	None	MTOJT
13-2061	Financial Examiners	371	381	10	2.70%	10	14	5	29	BD	None	LTOJT
13-2071	Credit Counselors	86	89	3	3.49%	2	4	2	8	BD	None	MTOJT
13-2072	Loan Officers	2,761	2,860	99	3.59%	64	138	50	252	BD	None	MTOJT
13-2081	Tax Examiners and Collectors, and Revenue Agents	481	482	1	0.21%	21	17	0	38	BD	None	MTOJT
13-2082	Tax Preparers	647	663	16	2.47%	33	35	8	76	HS	None	MTOJT
13-2098	Financial and Investment Analysts, Financial Risk Specialists, and Financial Specialists, All Other	2,027	2,065	38	1.87%	36	110	19	165	BD	None	None
15-0000	COMPUTER AND MATHEMATICAL OCCUPATIONS	24,144	24,608	464	1.92%	408	1,128	232	1,768			
15-1200	Computer Occupations	23,286	23,715	429	1.84%	391	1,091	214	1,696			
15-1211	Computer Systems Analysts	3,605	3,659	54	1.50%	69	161	27	257	BD	None	None
15-1212	Information Security Analysts	816	868	52	6.37%	12	42	26	80	BD	<5	None

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Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
15-1221	Computer and Information Research Scientists	51	52	1	1.96%	1	3	0	4	MD	None	None
15-1231	Computer Network Support Specialists	1,674	1,683	9	0.54%	30	84	4	118	AD	None	None
15-1232	Computer User Support Specialists	3,846	3,892	46	1.20%	68	192	23	283	SC	None	None
15-1241	Computer Network Architects	1,017	1,029	12	1.18%	14	44	6	64	BD	5+	None
15-1244	Network and Computer Systems Administrators	2,298	2,312	14	0.61%	34	100	7	141	BD	None	None
15-1245	Database Administrators and Architects	649	660	11	1.69%	13	28	6	47	BD	None	None
15-1251	Computer Programmers	1,856	1,824	-32	-1.72%	33	79	-16	96	BD	None	None
15-1256	Software Developers and Software Quality Assurance Analysts and Testers	5,775	6,015	240	4.16%	84	278	120	482	BD	None	None
15-1257	Web Developers and Digital Interface Designers	725	736	11	1.52%	14	36	6	56	AD	None	None
15-1299	Computer Occupations, All Other	974	985	11	1.13%	20	46	6	72	BD	None	None
15-2000	Mathematical Science Occupations	858	893	35	4.08%	18	37	18	73			
15-2031	Operations Research Analysts	414	430	16	3.86%	8	16	8	32	BD	None	None
15-2041	Statisticians	392	409	17	4.34%	8	19	8	35	MD	None	None
17-0000	ARCHITECTURE AND ENGINEERING OCCUPATIONS	13,104	13,173	69	0.53%	324	580	34	938			
17-1000	Architects, Surveyors, and Cartographers	1,393	1,423	30	2.15%	40	56	15	111			
17-1011	Architects, Except Landscape and Naval	820	839	19	2.32%	22	34	10	66	BD	None	I/R
17-1012	Landscape Architects	104	105	1	0.96%	2	4	0	6	BD	None	I/R
17-1021	Cartographers and Photogrammetrists	105	108	3	2.86%	4	4	2	10	BD	None	None
17-1022	Surveyors	364	371	7	1.92%	12	14	4	30	BD	None	I/R
17-2000	Engineers	7,949	8,008	59	0.74%	167	311	30	508			
17-2031	Biomedical Engineers	29	29	0	0.00%	0	2	0	2	BD	None	None
17-2041	Chemical Engineers	142	147	5	3.52%	3	4	2	9	BD	None	None
17-2051	Civil Engineers	1,494	1,515	21	1.41%	32	70	10	112	BD	None	None
17-2061	Computer Hardware Engineers	275	276	1	0.36%	6	12	0	18	BD	None	None

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Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
17-2071	Electrical Engineers	985	988	3	0.30%	22	36	2	60	BD	None	None
17-2072	Electronics Engineers, Except Computer	475	474	-1	-0.21%	10	17	0	27	BD	None	None
17-2081	Environmental Engineers	106	104	-2	-1.89%	2	4	-1	5	BD	None	None
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	108	107	-1	-0.93%	2	4	0	6	BD	None	None
17-2112	Industrial Engineers	1,891	1,898	7	0.37%	41	70	4	115	BD	None	None
17-2131	Materials Engineers	218	220	2	0.92%	4	8	1	13	BD	None	None
17-2141	Mechanical Engineers	1,175	1,182	7	0.60%	21	44	4	69	BD	None	None
17-2199	Engineers, All Other	587	595	8	1.36%	12	22	4	38	BD	None	None
17-3000	<i>Drafters, Engineering Technicians, and Mapping Technicians</i>	3,762	3,742	-20	-0.53%	117	214	-10	321			
17-3011	Architectural and Civil Drafters	572	585	13	2.27%	18	32	6	56	AD	None	None
17-3012	Electrical and Electronics Drafters	120	121	1	0.83%	4	6	0	10	AD	None	None
17-3013	Mechanical Drafters	423	420	-3	-0.71%	13	24	-2	35	AD	None	None
17-3019	Drafters, All Other	24	24	0	0.00%	1	2	0	3	AD	None	None
17-3022	Civil Engineering Technicians	265	268	3	1.13%	8	14	2	24	AD	None	None
17-3023	Electrical and Electronics Engineering Technicians	527	503	-24	-4.55%	16	27	-12	31	AD	None	None
17-3025	Environmental Engineering Technicians	232	227	-5	-2.16%	7	12	-2	17	AD	None	None
17-3026	Industrial Engineering Technicians	522	501	-21	-4.02%	16	26	-10	32	AD	None	None
17-3027	Mechanical Engineering Technicians	101	99	-2	-1.98%	3	5	-1	7	AD	None	None
17-3031	Surveying and Mapping Technicians	579	594	15	2.59%	19	45	8	72	HS	None	MTOJT
17-3098	Calibration and Engineering Technologists and Technicians, Except Drafters, All Other	387	389	2	0.52%	12	20	1	33	AD	None	None
19-0000	LIFE, PHYSICAL, AND SOCIAL SCIENCE OCCUPATIONS	7,871	7,976	105	1.33%	158	488	52	698			
19-1000	<i>Life Scientists</i>	1,735	1,780	45	2.59%	28	119	22	169			
19-1012	Food Scientists and Technologists	261	270	9	3.45%	4	21	4	29	BD	None	None
19-1013	Soil and Plant Scientists	98	103	5	5.10%	2	8	2	12	BD	None	None
19-1022	Microbiologists	245	254	9	3.67%	4	16	4	24	BD	None	None
19-1029	Biological Scientists, All Other	279	284	5	1.79%	4	18	2	24	BD	None	None

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Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
19-1031	Conservation Scientists	171	175	4	2.34%	3	12	2	17	BD	None	None
19-1032	Foresters	238	239	1	0.42%	4	16	0	20	BD	None	None
19-1041	Epidemiologists	44	45	1	2.27%	0	2	0	2	MD	None	None
19-1042	Medical Scientists, Except Epidemiologists	152	160	8	5.26%	2	10	4	16	DD	None	None
19-2000	Physical Scientists	735	739	4	0.54%	12	48	2	62			
19-2021	Atmospheric and Space Scientists	34	33	-1	-2.94%	0	2	0	2	BD	None	None
19-2031	Chemists	315	318	3	0.95%	5	20	2	27	BD	None	None
19-2032	Materials Scientists	27	25	-2	-7.41%	0	2	-1	1	BD	None	None
19-2041	Environmental Scientists and Specialists, Including Health	125	128	3	2.40%	2	9	2	13	BD	None	None
19-2042	Geoscientists, Except Hydrologists and Geographers	126	128	2	1.59%	2	9	1	12	BD	None	None
19-2099	Physical Scientists, All Other	27	27	0	0.00%	0	2	0	2	BD	None	None
19-3000	Social Scientists and Related Workers	1,748	1,754	6	0.34%	37	76	3	116			
19-3011	Economists	102	102	0	0.00%	2	5	0	7	MD	None	None
19-3031	Clinical, Counseling, and School Psychologists	1,114	1,109	-5	-0.45%	24	40	-2	62	DD	None	I/R
19-3039	Psychologists, All Other	132	134	2	1.52%	3	5	1	9	MD	None	I/R
19-3051	Urban and Regional Planners	112	116	4	3.57%	2	7	2	11	MD	None	None
19-3091	Anthropologists and Archeologists	27	27	0	0.00%	0	2	0	2	MD	None	None
19-3099	Social Scientists and Related Workers, All Other	189	193	4	2.12%	4	13	2	19	BD	None	None
19-4000	Life, Physical, and Social Science Technicians	2,737	2,780	43	1.57%	63	218	22	303			
19-4010	Agricultural and Food Science Technicians	485	490	5	1.03%	12	40	2	54	AD	None	MTOJT
19-4021	Biological Technicians	368	378	10	2.72%	7	30	5	42	BD	None	None
19-4031	Chemical Technicians	666	685	19	2.85%	10	50	10	70	AD	None	MTOJT
19-4042	Environmental Science and Protection Technicians, Including Health	76	76	0	0.00%	2	6	0	8	AD	None	None
19-4045	Geological and Hydrologic Technicians	59	59	0	0.00%	1	4	0	5	AD	None	MTOJT
19-4061	Social Science Research Assistants	59	60	1	1.69%	2	5	0	7	BD	None	None
19-4071	Forest and Conservation Technicians	318	325	7	2.20%	10	26	4	40	AD	None	None

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Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
19-4092	Forensic Science Technicians	161	163	2	1.24%	4	13	1	18	BD	None	MTOJT
19-4099	Life, Physical, and Social Science Technicians, All Other	545	544	-1	-0.18%	16	44	0	60	AD	None	None
19-5000	Occupational Health and Safety Specialists and Technicians	916	923	7	0.76%	19	26	4	49			
19-5011	Occupational Health and Safety Specialists	689	693	4	0.58%	14	20	2	36	BD	None	None
19-5012	Occupational Health and Safety Technicians	227	230	3	1.32%	4	6	2	12	HS	None	MTOJT
21-0000	COMMUNITY AND SOCIAL SERVICE OCCUPATIONS	33,816	34,502	686	2.03%	1,355	1,942	343	3,640			
21-1000	Counselors, Social Workers, and Other Community and Social Service Specialists	16,929	17,172	243	1.44%	554	1,010	122	1,686			
21-1012	Educational, Guidance, School, and Vocational Counselors	2,250	2,278	28	1.24%	74	125	14	213	MD	None	None
21-1013	Marriage and Family Therapists	125	124	-1	-0.80%	4	7	0	11	MD	None	I/R
21-1015	Rehabilitation Counselors	658	649	-9	-1.37%	21	36	-4	53	MD	None	None
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	2,093	2,148	55	2.63%	69	117	28	214	BD	None	None
21-1019	Counselors, All Other	150	150	0	0.00%	5	8	0	13	MD	None	None
21-1021	Child, Family, and School Social Workers	1,512	1,500	-12	-0.79%	43	86	-6	123	BD	None	None
21-1022	Healthcare Social Workers	1,366	1,376	10	0.73%	39	78	5	122	MD	None	I/R
21-1023	Mental Health and Substance Abuse Social Workers	1,186	1,205	19	1.60%	34	68	10	112	MD	None	I/R
21-1029	Social Workers, All Other	1,223	1,239	16	1.31%	35	70	8	113	BD	None	None
21-1091	Health Educators	228	229	1	0.44%	8	14	0	22	BD	None	None
21-1092	Probation Officers and Correctional Treatment Specialists	924	918	-6	-0.65%	19	50	-3	66	BD	None	STOJT
21-1093	Social and Human Service Assistants	4,436	4,544	108	2.43%	176	304	54	534	HS	None	STOJT
21-1094	Community Health Workers	347	356	9	2.59%	12	21	4	37	HS	None	STOJT
21-1099	Community and Social Service Specialists, All Other	431	456	25	5.80%	16	26	12	54	BD	None	None
21-2000	Religious Workers	16,887	17,330	443	2.62%	800	932	222	1,954			

For training codes, refer to page 89.

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Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
21-2011	Clergy	11,962	12,274	312	2.61%	516	623	156	1,295	BD	None	MTOJT
21-2021	Directors, Religious Activities and Education	1,193	1,224	31	2.60%	50	79	16	145	BD	<5	None
21-2099	Religious Workers, All Other	3,732	3,832	100	2.68%	234	230	50	514	BD	None	None
23-0000	LEGAL OCCUPATIONS	7,300	7,417	117	1.60%	192	266	58	516			
23-1000	Lawyers, Judges, and Related Workers	4,561	4,610	49	1.07%	96	106	24	226			
23-1011	Lawyers	4,010	4,063	53	1.32%	85	94	26	205	DD	None	None
23-1012	Judicial Law Clerks	49	49	0	0.00%	1	2	0	3	DD	None	None
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	241	239	-2	-0.83%	5	6	-1	10	DD	5+	STOJT
23-1022	Arbitrators, Mediators, and Conciliators	20	20	0	0.00%	0	0	0	0	BD	<5	MTOJT
23-1023	Judges, Magistrate Judges, and Magistrates	241	239	-2	-0.83%	5	6	-1	10	DD	5+	STOJT
23-2000	Legal Support Workers	2,739	2,807	68	2.48%	96	159	34	289			
23-2011	Paralegals and Legal Assistants	2,091	2,155	64	3.06%	74	129	32	235	AD	None	None
23-2093	Title Examiners, Abstractors, and Searchers	525	528	3	0.57%	18	24	2	44	HS	None	MTOJT
23-2099	Legal Support Workers, All Other	123	124	1	0.81%	4	6	0	10	AD	None	None
25-0000	EDUCATION, TRAINING, AND LIBRARY OCCUPATIONS	83,773	83,923	150	0.18%	3,256	3,272	75	6,603			
25-1000	Postsecondary Teachers	13,349	13,500	151	1.13%	500	498	76	1,074			
25-1011	Business Teachers, Postsecondary	731	746	15	2.05%	28	28	8	64	DD	None	None
25-1021	Computer Science Teachers, Postsecondary	413	415	2	0.48%	16	16	1	33	DD	None	None
25-1022	Mathematical Science Teachers, Postsecondary	703	707	4	0.57%	26	26	2	54	DD	None	None
25-1032	Engineering Teachers, Postsecondary	364	368	4	1.10%	14	14	2	30	DD	None	None
25-1041	Agricultural Sciences Teachers, Postsecondary	244	244	0	0.00%	9	9	0	18	DD	None	None

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Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
25-1042	Biological Science Teachers, Postsecondary	1,713	1,731	18	1.05%	64	64	9	137	DD	None	None
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	107	107	0	0.00%	4	4	0	8	DD	None	None
25-1052	Chemistry Teachers, Postsecondary	249	251	2	0.80%	10	10	1	21	DD	None	None
25-1053	Environmental Science Teachers, Postsecondary	20	20	0	0.00%	0	0	0	0	DD	None	None
25-1054	Physics Teachers, Postsecondary	116	116	0	0.00%	4	4	0	8	DD	None	None
25-1061	Anthropology and Archeology Teachers, Postsecondary	26	26	0	0.00%	1	1	0	2	DD	None	None
25-1063	Economics Teachers, Postsecondary	101	102	1	0.99%	4	4	0	8	DD	None	None
25-1065	Political Science Teachers, Postsecondary	121	121	0	0.00%	4	4	0	8	DD	None	None
25-1066	Psychology Teachers, Postsecondary	310	316	6	1.94%	12	12	3	27	DD	None	None
25-1067	Sociology Teachers, Postsecondary	111	112	1	0.90%	4	4	0	8	DD	None	None
25-1069	Social Sciences Teachers, Postsecondary, All Other	284	286	2	0.70%	10	10	1	21	DD	None	None
25-1071	Health Specialties Teachers, Postsecondary	784	809	25	3.19%	30	30	12	72	DD	<5	None
25-1072	Nursing Instructors and Teachers, Postsecondary	768	796	28	3.65%	29	29	14	72	DD	<5	None
25-1081	Education Teachers, Postsecondary	673	677	4	0.59%	25	25	2	52	DD	<5	None
25-1082	Library Science Teachers, Postsecondary	38	38	0	0.00%	2	2	0	4	DD	None	None
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	103	105	2	1.94%	4	4	1	9	DD	None	None
25-1112	Law Teachers, Postsecondary	108	109	1	0.93%	4	4	0	8	DD	<5	None
25-1113	Social Work Teachers, Postsecondary	322	323	1	0.31%	12	12	0	24	DD	None	None
25-1121	Art, Drama, and Music Teachers, Postsecondary	878	884	6	0.68%	33	32	3	68	MD	None	None
25-1122	Communications Teachers, Postsecondary	503	506	3	0.60%	19	18	2	39	DD	None	None
25-1123	English Language and Literature Teachers, Postsecondary	793	796	3	0.38%	30	30	2	62	DD	None	None
25-1124	Foreign Language and Literature Teachers, Postsecondary	210	212	2	0.95%	8	8	1	17	DD	None	None

For training codes, refer to page 89.

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Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
25-1125	History Teachers, Postsecondary	347	350	3	0.86%	13	13	2	28	DD	None	None
25-1126	Philosophy and Religion Teachers, Postsecondary	81	82	1	1.23%	3	3	0	6	DD	None	None
25-1192	Home Economics Teachers, Postsecondary	37	37	0	0.00%	2	2	0	4	MD	None	None
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	142	143	1	0.70%	6	6	0	12	DD	None	None
25-1194	Vocational Education Teachers, Postsecondary	877	890	13	1.48%	33	32	6	71	BD	<5	None
25-1199	Postsecondary Teachers, All Other	1,007	1,010	3	0.30%	38	38	2	78	DD	None	None
25-2000	<i>Preschool, Primary, Secondary, and Special Education School Teachers</i>	44,053	44,354	301	0.68%	1,412	1,634	150	3,196			
25-2011	Preschool Teachers, Except Special Education	5,090	5,066	-24	-0.47%	204	253	-12	445	AD	None	None
25-2012	Kindergarten Teachers, Except Special Education	1,534	1,547	13	0.85%	62	77	6	145	BD	None	None
25-2021	Elementary School Teachers, Except Special Education	13,335	13,451	116	0.87%	424	464	58	946	BD	None	None
25-2022	Middle School Teachers, Except Special and Career/Technical Education	6,615	6,673	58	0.88%	210	230	29	469	BD	None	None
25-2023	Career/Technical Education Teachers, Middle School	60	61	1	1.67%	2	2	0	4	BD	<5	None
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	12,244	12,355	111	0.91%	341	430	56	827	BD	None	None
25-2032	Career/Technical Education Teachers, Secondary School	1,179	1,186	7	0.59%	33	42	4	79	BD	<5	None
25-2051	Special Education Teachers, Preschool	375	369	-6	-1.60%	12	12	-3	21	BD	None	None
25-2052	Special Education Teachers, Kindergarten and Elementary School	1,327	1,335	8	0.60%	45	46	4	95	BD	None	None
25-2057	Special Education Teachers, Middle School	926	932	6	0.65%	32	32	3	67	BD	None	None
25-2058	Special Education Teachers, Secondary School	1,230	1,239	9	0.73%	42	42	4	88	BD	None	None
25-2059	Special Education Teachers, All Other	138	140	2	1.45%	4	4	1	9	BD	None	None

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Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
25-3000	Other Teachers and Instructors	7,371	7,038	-333	-4.52%	418	334	-166	586			
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	293	288	-5	-1.71%	17	14	-2	29	BD	None	None
25-3021	Self-Enrichment Education Teachers	1,254	1,217	-37	-2.95%	72	58	-18	112	HS	<5	None
25-3031	Substitute Teachers, Short-Term	3,903	3,612	-291	-7.46%	220	174	-146	248	BD	None	None
25-3097	Teachers and Instructors, All Other, Except Substitute Teachers	1,879	1,881	2	0.11%	110	88	1	199	BD	None	None
25-3099	Teachers and Instructors, All Other	42	40	-2	-4.76%	0	0	-1	0	BD	None	None
25-4000	Librarians, Curators, and Archivists	2,312	2,333	21	0.91%	132	105	10	247			
25-4011	Archivists	62	63	1	1.61%	3	4	0	7	MD	None	None
25-4012	Curators	97	102	5	5.15%	5	5	2	12	MD	None	None
25-4013	Museum Technicians and Conservators	61	64	3	4.92%	3	4	2	9	BD	None	None
25-4022	Librarians and Media Collections Specialists	1,519	1,536	17	1.12%	72	61	8	141	BD	None	None
25-4031	Library Technicians	573	568	-5	-0.87%	49	32	-2	79	PS	None	None
25-9000	Other Education, Training, and Library Occupations	16,688	16,698	10	0.06%	793	700	5	1,498			
25-9021	Farm and Home Management Advisors	207	201	-6	-2.90%	8	8	-3	13	MD	None	None
25-9031	Instructional Coordinators	1,656	1,664	8	0.48%	70	68	4	142	MD	5+	None
25-9044	Teaching Assistants, Postsecondary	3,433	3,437	4	0.12%	128	127	2	257	BD	None	None
25-9045	Teaching Assistants, Except Postsecondary	11,226	11,225	-1	-0.01%	580	490	0	1,070	SC	None	None
25-9099	Education, Training, and Library Workers, All Other	166	171	5	3.01%	7	7	2	16	BD	None	None
27-0000	ARTS, DESIGN, ENTERTAINMENT, SPORTS, AND MEDIA OCCUPATIONS	18,237	17,964	-273	-1.50%	730	1,029	-136	1,623			
27-1000	Art and Design Workers	4,790	4,767	-23	-0.48%	156	259	-12	403			
27-1011	Art Directors	245	246	1	0.41%	12	12	0	24	BD	5+	None
27-1014	Multimedia Artists and Animators	170	172	2	1.18%	8	8	1	17	BD	None	None
27-1021	Commercial and Industrial Designers	144	141	-3	-2.08%	4	8	-2	10	BD	None	None
27-1022	Fashion Designers	47	50	3	6.38%	2	2	2	6	BD	None	None
27-1023	Floral Designers	415	396	-19	-4.58%	12	22	-10	24	HS	None	MTOJT

For training codes, refer to page 89.

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Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
27-1024	Graphic Designers	1,584	1,560	-24	-1.52%	48	86	-12	122	BD	None	None
27-1025	Interior Designers	426	429	3	0.70%	13	24	2	39	BD	None	None
27-1027	Set and Exhibit Designers	36	37	1	2.78%	1	2	0	3	BD	None	None
27-2000	Entertainers and Performers, Sports and Related Workers	5,796	5,695	-101	-1.74%	307	348	-50	605			
27-2011	Actors	60	56	-4	-6.67%	2	4	-2	4	SC	None	LTOJT
27-2012	Producers and Directors	557	516	-41	-7.36%	10	33	-20	23	BD	<5	None
27-2021	Athletes and Sports Competitors	266	210	-56	-21.05%	14	18	-28	4	NFE	None	LTOJT
27-2022	Coaches and Scouts	1,579	1,547	-32	-2.03%	93	118	-16	195	BD	None	None
27-2041	Music Directors and Composers	1,819	1,854	35	1.92%	103	93	18	214	BD	<5	None
27-2042	Musicians and Singers	1,298	1,316	18	1.39%	74	66	9	149	NFE	None	LTOJT
27-2090	Miscellaneous Entertainers and Performers, Sports and Related Workers	48	45	-3	-6.25%	2	2	-2	2	NFE	None	STOJT
27-3000	Media and Communication Workers	6,032	5,950	-82	-1.36%	212	334	-41	505			
27-3011	Radio and Television Announcers	386	364	-22	-5.70%	14	22	-11	25	BD	None	None
27-3023	News Analysts, Reporters, and Journalists	347	303	-44	-12.68%	9	23	-22	10	BD	None	None
27-3031	Public Relations Specialists	1,428	1,471	43	3.01%	38	90	22	150	BD	None	None
27-3041	Editors	397	353	-44	-11.08%	11	24	-22	13	BD	<5	None
27-3042	Technical Writers	229	238	9	3.93%	8	13	4	25	BD	<5	STOJT
27-3043	Writers and Authors	2,596	2,584	-12	-0.46%	107	131	-6	232	BD	None	LTOJT
27-3091	Interpreters and Translators	319	328	9	2.82%	13	14	4	31	BD	None	None
27-4000	Media and Communication Equipment Workers	1,619	1,552	-67	-4.14%	55	88	-34	109			
27-4011	Audio and Video Equipment Technicians	219	206	-13	-5.94%	7	14	-6	15	PS	None	STOJT
27-4012	Broadcast Technicians	259	247	-12	-4.63%	8	17	-6	19	AD	None	STOJT
27-4021	Photographers	915	897	-18	-1.97%	34	45	-9	70	HS	None	MTOJT
27-4031	Camera Operators, Television, Video, and Motion Picture	121	109	-12	-9.92%	3	6	-6	3	BD	None	None
27-4032	Film and Video Editors	65	57	-8	-12.31%	2	4	-4	2	BD	None	None
29-0000	HEALTHCARE PRACTITIONERS AND TECHNICAL OCCUPATIONS	85,006	86,019	1,013	1.19%	2,212	2,284	506	5,002			

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Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
29-1000	Health Diagnosing and Treating Practitioners	52,058	52,774	716	1.38%	1,264	1,062	358	2,684			
29-1011	Chiropractors	374	365	-9	-2.41%	5	3	-4	4	DD	None	None
29-1021	Dentists, General	969	982	13	1.34%	20	8	6	34	DD	None	None
29-1029	Dentists, All Other Specialists	35	37	2	5.71%	0	0	1	1	DD	None	I/R
29-1031	Dietitians and Nutritionists	622	624	2	0.32%	20	17	1	38	BD	None	I/R
29-1041	Optometrists	386	377	-9	-2.33%	7	4	-4	7	DD	None	None
29-1051	Pharmacists	3,169	3,151	-18	-0.57%	66	56	-9	113	DD	None	None
29-1071	Physician Assistants	535	565	30	5.61%	8	20	15	43	MD	None	None
29-1081	Podiatrists	71	69	-2	-2.82%	2	2	-1	3	DD	None	I/R
29-1122	Occupational Therapists	1,310	1,321	11	0.84%	30	38	6	74	MD	None	None
29-1123	Physical Therapists	2,260	2,276	16	0.71%	42	42	8	92	DD	None	None
29-1124	Radiation Therapists	153	156	3	1.96%	3	4	2	9	AD	None	None
29-1125	Recreational Therapists	44	45	1	2.27%	1	1	0	2	BD	None	None
29-1126	Respiratory Therapists	1,609	1,655	46	2.86%	38	33	23	94	AD	None	None
29-1127	Speech-Language Pathologists	2,108	2,173	65	3.08%	46	66	32	144	MD	None	I/R
29-1128	Exercise Physiologists	54	55	1	1.85%	2	2	0	4	BD	None	None
29-1129	Therapists, All Other	202	206	4	1.98%	6	6	2	14	BD	None	None
29-1131	Veterinarians	564	574	10	1.77%	10	8	5	23	DD	None	None
29-1141	Registered Nurses	26,495	26,664	169	0.64%	720	553	84	1,357	BD	None	None
29-1151	Nurse Anesthetists	371	377	6	1.62%	7	11	3	21	MD	None	None
29-1171	Nurse Practitioners	2,714	2,980	266	9.80%	59	82	133	274	MD	None	None
29-1181	Audiologists	208	210	2	0.96%	5	4	1	10	DD	None	None
29-1215	Family Medicine Physicians	1,499	1,528	29	1.93%	24	16	14	54	DD	None	I/R
29-1216	General Internal Medicine Physicians	143	143	0	0.00%	2	2	0	4	DD	None	I/R
29-1218	Obstetricians and Gynecologists	85	85	0	0.00%	2	1	0	3	DD	None	I/R
29-1221	Pediatricians, General	109	110	1	0.92%	2	1	0	3	DD	None	I/R
29-1223	Psychiatrists	171	174	3	1.75%	3	2	2	7	DD	None	I/R
29-1228	Physicians, All Other; and Ophthalmologists, Except Pediatric	3,478	3,513	35	1.01%	56	38	18	112	DD	None	I/R
29-1248	Surgeons, Except Ophthalmologists	184	184	0	0.00%	3	2	0	5	DD	None	I/R
29-1292	Dental Hygienists	1,557	1,595	38	2.44%	60	33	19	112	AD	None	None
29-1298	Acupuncturists and Healthcare Diagnosing or Treating Practitioners, All Other	322	321	-1	-0.31%	10	4	0	14	MD	None	None

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Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
29-2000	Health Technologists and Technicians	32,147	32,441	294	0.91%	931	1,198	147	2,276			
29-2010	Clinical Laboratory Technologists and Technicians	2,464	2,480	16	0.65%	64	71	8	143	BD	None	None
29-2031	Cardiovascular Technologists and Technicians	553	553	0	0.00%	13	14	0	27	AD	None	None
29-2032	Diagnostic Medical Sonographers	430	440	10	2.33%	10	10	5	25	AD	None	None
29-2033	Nuclear Medicine Technologists	215	215	0	0.00%	5	5	0	10	AD	None	None
29-2034	Radiologic Technologists	2,357	2,386	29	1.23%	56	58	14	128	AD	None	None
29-2035	Magnetic Resonance Imaging Technologists	332	333	1	0.30%	8	8	0	16	AD	<5	None
29-2040	Emergency Medical Technicians and Paramedics	1,833	1,873	40	2.18%	31	75	20	126	PS	None	None
29-2051	Dietetic Technicians	107	108	1	0.93%	3	5	0	8	AD	None	None
29-2052	Pharmacy Technicians	4,799	4,862	63	1.31%	137	220	32	389	HS	None	MTOJT
29-2053	Psychiatric Technicians	834	865	31	3.72%	24	39	16	79	PS	<5	STOJT
29-2055	Surgical Technologists	1,346	1,352	6	0.45%	38	62	3	103	PS	None	None
29-2056	Veterinary Technologists and Technicians	452	458	6	1.33%	13	21	3	37	AD	None	None
29-2057	Ophthalmic Medical Technicians	457	464	7	1.53%	13	21	4	38	PS	None	None
29-2061	Licensed Practical and Licensed Vocational Nurses	12,209	12,262	53	0.43%	398	442	26	866	PS	None	None
29-2081	Opticians, Dispensing	694	688	-6	-0.86%	28	20	-3	45	HS	None	LTOJT
29-2098	Medical Dosimetrists, Medical Records Specialists, and Health Technologists and Technicians, All Other	2,934	2,968	34	1.16%	84	122	17	223	PS	None	None
29-9000	Other Healthcare Practitioners and Technical Occupations	801	804	3	0.37%	16	24	2	42			
29-9098	Health Information Technologists, Medical Registrars, Surgical Assistants, & Healthcare Practitioners, AO	563	568	5	0.89%	12	16	2	30	PS	None	None
31-0000	HEALTHCARE SUPPORT OCCUPATIONS	55,580	55,714	134	0.24%	3,030	2,926	67	6,023			

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Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
31-1000	<i>Nursing, Psychiatric, and Home Health Aides</i>	42,485	42,373	-112	-0.26%	2,460	2,117	-56	4,521			
31-1120	Home Health and Personal Care Aides	22,842	22,863	21	0.09%	1,410	1,165	10	2,585	HS	None	STOJT
31-1131	Nursing Assistants	18,760	18,621	-139	-0.74%	1,002	909	-70	1,841	PS	None	None
31-1132	Orderlies	572	575	3	0.52%	31	28	2	61	HS	None	STOJT
31-1133	Psychiatric Aides	311	314	3	0.96%	17	15	2	34	HS	None	STOJT
31-2000	<i>Occupational Therapy and Physical Therapist Assistants and Aides</i>	2,045	2,090	45	2.20%	83	128	22	233			
31-2011	Occupational Therapy Assistants	342	354	12	3.51%	16	18	6	40	AD	None	None
31-2021	Physical Therapist Assistants	1,364	1,397	33	2.42%	54	89	16	159	AD	None	None
31-9000	<i>Other Healthcare Support Occupations</i>	11,050	11,251	201	1.82%	488	681	100	1,269			
31-9011	Massage Therapists	671	666	-5	-0.75%	38	29	-2	65	PS	None	None
31-9091	Dental Assistants	2,756	2,822	66	2.39%	120	160	33	313	PS	None	None
31-9092	Medical Assistants	3,986	4,099	113	2.83%	154	246	56	456	PS	None	None
31-9093	Medical Equipment Preparers	318	320	2	0.63%	17	17	1	35	HS	None	MTOJT
31-9094	Medical Transcriptionists	543	539	-4	-0.74%	30	36	-2	64	PS	None	None
31-9095	Pharmacy Aides	223	211	-12	-5.38%	10	14	-6	18	HS	None	STOJT
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	980	995	15	1.53%	48	93	8	149	HS	None	STOJT
31-9097	Phlebotomists	889	918	29	3.26%	34	51	14	99	PS	None	None
31-9099	Healthcare Support Workers, All Other	684	681	-3	-0.44%	36	36	-2	70	HS	None	None
33-0000	PROTECTIVE SERVICE OCCUPATIONS	28,324	28,610	286	1.01%	1,132	1,460	143	2,735			
33-1000	<i>Supervisors of Protective Service Workers</i>	4,149	4,245	96	2.31%	112	160	48	320			
33-1011	First-Line Supervisors of Correctional Officers	537	537	0	0.00%	16	20	0	36	HS	<5	None
33-1012	First-Line Supervisors of Police and Detectives	1,801	1,854	53	2.94%	44	64	26	134	HS	<5	MTOJT
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	1,085	1,123	38	3.50%	25	38	19	82	PS	<5	MTOJT

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Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
33-1090	Miscellaneous First-Line Supervisors, Protective Service Workers	726	731	5	0.69%	27	38	2	67	HS	<5	None
33-2000	Fire Fighting and Prevention Workers	2,759	2,846	87	3.15%	64	122	44	230			
33-2011	Firefighters	2,532	2,613	81	3.20%	52	112	40	204	PS	None	LTOJT
33-2021	Fire Inspectors and Investigators	29	30	1	3.45%	2	2	0	4	PS	5+	MTOJT
33-2022	Forest Fire Inspectors and Prevention Specialists	198	203	5	2.53%	10	8	2	20	HS	<5	MTOJT
33-3000	Law Enforcement Workers	12,862	12,959	97	0.75%	403	564	48	1,015			
33-3011	Bailiffs	37	38	1	2.70%	2	2	0	4	HS	None	MTOJT
33-3012	Correctional Officers and Jailers	5,799	5,717	-82	-1.41%	230	262	-41	451	HS	None	MTOJT
33-3021	Detectives and Criminal Investigators	487	499	12	2.46%	12	20	6	38	HS	<5	MTOJT
33-3041	Parking Enforcement Workers	27	25	-2	-7.41%	1	1	-1	1	HS	None	STOJT
33-3051	Police and Sheriff's Patrol Officers	6,297	6,468	171	2.72%	153	272	86	511	HS	None	MTOJT
33-9000	Other Protective Service Workers	8,554	8,560	6	0.07%	552	614	3	1,169			
33-9011	Animal Control Workers	171	176	5	2.92%	8	8	2	18	HS	None	MTOJT
33-9021	Private Detectives and Investigators	162	165	3	1.85%	4	8	2	14	HS	<5	MTOJT
33-9032	Security Guards	6,648	6,647	-1	-0.02%	336	456	0	792	HS	None	STOJT
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	577	588	11	1.91%	83	58	6	147	NFE	None	STOJT
33-9093	Transportation Security Screeners	172	175	3	1.74%	7	8	2	17	HS	None	STOJT
33-9098	School Bus Monitors and Protective Service Workers, All Other	714	695	-19	-2.66%	100	70	-10	160	HS	None	STOJT
35-0000	FOOD PREPARATION AND SERVING RELATED OCCUPATIONS	110,587	101,991	-8,596	-7.77%	7,743	9,462	-4,298	12,907			
35-1000	Supervisors of Food Preparation and Serving Workers	12,896	11,875	-1,021	-7.92%	544	1,144	-510	1,178			
35-1011	Chefs and Head Cooks	410	385	-25	-6.10%	12	34	-12	34	HS	5+	None
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	12,486	11,490	-996	-7.98%	532	1,110	-498	1,144	HS	<5	None
35-2000	Cooks and Food Preparation Workers	27,183	25,564	-1,619	-5.96%	1,490	2,035	-810	2,715			
35-2011	Cooks, Fast Food	3,930	3,452	-478	-12.16%	198	279	-239	238	NFE	None	STOJT

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Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
35-2012	Cooks, Institution and Cafeteria	7,332	7,160	-172	-2.35%	389	548	-86	851	NFE	None	STOJT
35-2013	Cooks, Private Household	210	204	-6	-2.86%	11	16	-3	24	PS	<5	None
35-2014	Cooks, Restaurant	10,870	10,204	-666	-6.13%	566	797	-333	1,030	NFE	<5	MTOJT
35-2015	Cooks, Short Order	565	521	-44	-7.79%	29	41	-22	48	NFE	None	STOJT
35-2021	Food Preparation Workers	3,966	3,709	-257	-6.48%	280	331	-128	483	NFE	None	STOJT
35-3000	Food and Beverage Serving Workers	62,489	57,286	-5,203	-8.33%	5,045	5,660	-2,602	8,103			
35-3011	Bartenders	1,944	1,714	-230	-11.83%	80	204	-115	169	NFE	None	STOJT
35-3023	Fast Food and Counter Workers	40,394	37,251	-3,143	-7.78%	3,622	3,460	-1,572	5,510	NFE	None	STOJT
35-3031	Waiters and Waitresses	19,175	17,378	-1,797	-9.37%	1,270	1,928	-898	2,300	NFE	None	STOJT
35-3041	Food Servers, Nonrestaurant	976	943	-33	-3.38%	72	68	-16	124	NFE	None	STOJT
35-9000	Other Food Preparation and Serving Related Workers	8,019	7,266	-753	-9.39%	664	624	-376	912			
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	2,229	2,021	-208	-9.33%	174	162	-104	232	NFE	None	STOJT
35-9021	Dishwashers	3,324	2,985	-339	-10.20%	238	228	-170	296	NFE	None	STOJT
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	2,177	1,986	-191	-8.77%	229	211	-96	344	NFE	None	STOJT
35-9099	Food Preparation and Serving Related Workers, All Other	289	274	-15	-5.19%	23	22	-8	37	NFE	None	STOJT
37-0000	BUILDING AND GROUNDS CLEANING AND MAINTENANCE OCCUPATIONS	48,431	48,461	30	0.06%	2,742	3,041	15	5,798			
37-1000	Supervisors of Building and Grounds Cleaning and Maintenance Workers	4,225	4,304	79	1.87%	166	257	40	463			
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	2,485	2,505	20	0.80%	106	151	10	267	HS	<5	None
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	1,740	1,799	59	3.39%	60	106	30	196	HS	<5	None
37-2000	Building Cleaning and Pest Control Workers	34,959	34,666	-293	-0.84%	2,180	2,079	-146	4,113			
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	20,026	20,250	224	1.12%	1,230	1,219	112	2,561	NFE	None	STOJT
37-2012	Maids and Housekeeping Cleaners	11,612	10,983	-629	-5.42%	781	615	-314	1,082	NFE	None	STOJT

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Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
37-2019	Building Cleaning Workers, All Other	2,161	2,210	49	2.27%	134	132	24	290	NFE	None	STOJT
37-2021	Pest Control Workers	1,160	1,223	63	5.43%	36	112	32	180	HS	None	MTOJT
37-3000	Grounds Maintenance Workers	9,247	9,491	244	2.64%	397	705	122	1,224			
37-3011	Landscaping and Groundskeeping Workers	8,247	8,461	214	2.59%	354	629	107	1,090	NFE	None	STOJT
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	342	352	10	2.92%	14	26	5	45	HS	None	MTOJT
37-3013	Tree Trimmers and Pruners	432	449	17	3.94%	18	33	8	59	HS	None	STOJT
37-3019	Grounds Maintenance Workers, All Other	226	229	3	1.33%	10	17	2	29	NFE	None	STOJT
39-0000	PERSONAL CARE AND SERVICE OCCUPATIONS	31,283	30,610	-673	-2.15%	2,130	2,177	-336	3,971			
39-1000	<i>Supervisors of Personal Care and Service Workers</i>	2,057	1,991	-66	-3.21%	82	94	-33	143			
39-2000	<i>Animal Care and Service Workers</i>	3,877	3,893	16	0.41%	248	293	8	549			
39-2011	Animal Trainers	1,036	1,042	6	0.58%	58	76	3	137	HS	None	MTOJT
39-2021	Nonfarm Animal Caretakers	2,841	2,851	10	0.35%	190	218	5	413	HS	None	STOJT
39-3000	Entertainment Attendants and Related Workers	3,147	2,761	-386	-12.27%	320	332	-193	459			
39-3031	Ushers, Lobby Attendants, and Ticket Takers	1,058	618	-440	-41.59%	110	110	-220	0	NFE	None	STOJT
39-3091	Amusement and Recreation Attendants	1,846	1,851	5	0.27%	186	197	2	385	NFE	None	STOJT
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	119	117	-2	-1.68%	12	12	-1	23	HS	None	STOJT
39-4000	Funeral Service Workers	814	800	-14	-1.72%	56	48	-7	97			
39-4011	Embalmers	100	97	-3	-3.00%	9	6	-2	13	AD	None	LTOJT
39-4021	Funeral Attendants	296	290	-6	-2.03%	28	17	-3	42	HS	None	STOJT
39-4031	Morticians, Undertakers, and Funeral Directors	418	413	-5	-1.20%	20	25	-2	43	AD	None	LTOJT
39-5000	Personal Appearance Workers	4,235	4,213	-22	-0.52%	238	220	-11	447			
39-5012	Hairdressers, Hairstylists, and Cosmetologists	3,350	3,312	-38	-1.13%	194	176	-19	351	PS	None	None
39-5092	Manicurists and Pedicurists	155	160	5	3.23%	8	8	2	18	PS	None	None
39-5094	Skincare Specialists	261	269	8	3.07%	14	12	4	30	PS	None	None

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Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
39-6000	<i>Baggage Porters, Bellhops, and Concierges</i>	171	155	-16	-9.36%	9	12	-8	13			
39-6011	Baggage Porters and Bellhops	146	130	-16	-10.96%	8	10	-8	10	HS	None	STOJT
39-6012	Concierges	25	25	0	0.00%	2	2	0	4	HS	None	MTOJT
39-7000	<i>Tour and Travel Guides</i>	204	211	7	3.43%	16	18	4	38			
39-7010	Tour and Travel Guides	204	211	7	3.43%	16	18	4	38	HS	None	MTOJT
39-9000	<i>Other Personal Care and Service Workers</i>	16,778	16,586	-192	-1.14%	1,162	1,160	-96	2,226			
39-9011	Childcare Workers	11,503	11,339	-164	-1.43%	846	717	-82	1,481	HS	None	STOJT
39-9021	Personal Care Aides	113	109	-4	-3.54%	1	1	-2	0	HS	None	STOJT
39-9031	Fitness Trainers and Aerobics Instructors	1,431	1,454	23	1.61%	90	128	12	230	HS	None	STOJT
39-9032	Recreation Workers	2,206	2,153	-53	-2.40%	135	194	-26	303	HS	None	STOJT
39-9041	Residential Advisors	1,144	1,154	10	0.87%	66	95	5	166	HS	None	STOJT
39-9098	Crematory Operators and Personal Care and Service Workers, All Other	381	377	-4	-1.05%	23	26	-2	47	HS	None	STOJT
41-0000	SALES AND RELATED OCCUPATIONS	135,958	134,339	-1,619	-1.19%	6,930	9,498	-810	15,618			
41-1000	<i>Supervisors of Sales Workers</i>	19,586	19,173	-413	-2.11%	643	1,175	-206	1,612			
41-1011	First-Line Supervisors of Retail Sales Workers	15,563	15,201	-362	-2.33%	524	966	-181	1,309	HS	<5	None
41-1012	First-Line Supervisors of Non-Retail Sales Workers	4,023	3,972	-51	-1.27%	119	210	-26	303	HS	<5	None
41-2000	<i>Retail Sales Workers</i>	74,831	73,110	-1,721	-2.30%	4,839	5,728	-860	9,707			
41-2011	Cashiers	28,567	28,018	-549	-1.92%	2,383	2,390	-274	4,499	NFE	None	STOJT
41-2021	Counter and Rental Clerks	4,599	4,626	27	0.59%	206	292	14	512	NFE	None	STOJT
41-2031	Retail Salespersons	38,185	36,892	-1,293	-3.39%	2,104	2,810	-646	4,268	NFE	None	STOJT
41-3000	<i>Sales Representatives, Services</i>	18,460	18,583	123	0.67%	576	1,138	62	1,776			
41-3011	Advertising Sales Agents	1,099	1,038	-61	-5.55%	31	91	-30	92	HS	None	MTOJT
41-3021	Insurance Sales Agents	10,477	10,782	305	2.91%	354	536	152	1,042	HS	None	MTOJT
41-3031	Securities, Commodities, and Financial Services Sales Agents	1,710	1,761	51	2.98%	41	101	26	168	BD	None	MTOJT
41-3041	Travel Agents	239	160	-79	-33.05%	20	20	-40	0	HS	None	MTOJT
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	4,935	4,842	-93	-1.88%	130	390	-46	474	HS	None	MTOJT

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Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
41-4000	Sales Representatives, Wholesale and Manufacturing	14,621	14,888	267	1.83%	434	890	134	1,458			
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	1,988	2,037	49	2.46%	59	122	24	205	BD	None	MTOJT
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	12,633	12,851	218	1.73%	374	768	109	1,251	HS	None	MTOJT
41-9000	Other Sales and Related Workers	8,460	8,585	125	1.48%	439	566	62	1,067			
41-9021	Real Estate Brokers	666	678	12	1.80%	28	28	6	62	HS	<5	None
41-9022	Real Estate Sales Agents	2,042	2,065	23	1.13%	85	85	12	182	HS	None	MTOJT
41-9031	Sales Engineers	227	230	3	1.32%	4	17	2	23	BD	None	MTOJT
41-9041	Telemarketers	2,373	2,438	65	2.74%	100	229	32	361	NFE	None	STOJT
41-9091	Door-to-Door Sales Workers, News and Street Vendors, and Related Workers	221	208	-13	-5.88%	15	10	-6	19	NFE	None	STOJT
43-0000	OFFICE AND ADMINISTRATIVE SUPPORT OCCUPATIONS	165,319	164,602	-717	-0.43%	7,838	9,314	-358	16,794			
43-1000	Supervisors of Office and Administrative Support Workers	14,497	14,484	-13	-0.09%	537	817	-6	1,348			
43-1011	First-Line Supervisors of Office and Administrative Support Workers	14,497	14,484	-13	-0.09%	537	817	-6	1,348	HS	<5	None
43-2000	Communications Equipment Operators	640	627	-13	-2.03%	30	34	-6	58			
43-2011	Switchboard Operators, Including Answering Service	598	587	-11	-1.84%	28	31	-6	53	HS	None	STOJT
43-3000	Financial Clerks	28,014	28,097	83	0.30%	1,408	1,490	42	2,940			
43-3011	Bill and Account Collectors	2,500	2,566	66	2.64%	90	178	33	301	HS	None	MTOJT
43-3021	Billing and Posting Clerks	3,759	3,791	32	0.85%	152	212	16	380	HS	None	MTOJT
43-3031	Bookkeeping, Accounting, and Auditing Clerks	13,722	13,652	-70	-0.51%	823	622	-35	1,410	SC	None	MTOJT
43-3051	Payroll and Timekeeping Clerks	1,230	1,230	0	0.00%	58	62	0	120	HS	None	MTOJT
43-3061	Procurement Clerks	865	868	3	0.35%	25	51	2	78	HS	None	MTOJT
43-3071	Tellers	5,636	5,673	37	0.66%	249	345	18	612	HS	None	STOJT
43-4000	Information and Record Clerks	43,481	43,523	42	0.10%	2,146	2,894	21	5,061			

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Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
43-4011	Brokerage Clerks	136	139	3	2.21%	4	8	2	14	HS	None	MTOJT
43-4021	Correspondence Clerks	21	21	0	0.00%	1	2	0	3	HS	None	STOJT
43-4031	Court, Municipal, and License Clerks	1,058	1,086	28	2.65%	49	46	14	109	HS	None	LTOJT
43-4041	Credit Authorizers, Checkers, and Clerks	124	127	3	2.42%	4	8	2	14	HS	None	MTOJT
43-4051	Customer Service Representatives	16,752	16,894	142	0.85%	782	1,222	71	2,075	HS	None	STOJT
43-4061	Eligibility Interviewers, Government Programs	1,607	1,600	-7	-0.44%	64	77	-4	137	HS	None	MTOJT
43-4071	File Clerks	507	496	-11	-2.17%	28	28	-6	50	HS	None	STOJT
43-4081	Hotel, Motel, and Resort Desk Clerks	2,510	2,192	-318	-12.67%	122	234	-159	197	HS	None	STOJT
43-4111	Interviewers, Except Eligibility and Loan	3,065	3,053	-12	-0.39%	175	176	-6	345	HS	None	STOJT
43-4121	Library Assistants, Clerical	620	625	5	0.81%	50	38	2	90	HS	None	STOJT
43-4131	Loan Interviewers and Clerks	2,130	2,234	104	4.88%	72	118	52	242	HS	None	STOJT
43-4141	New Accounts Clerks	574	578	4	0.70%	23	34	2	59	HS	None	MTOJT
43-4151	Order Clerks	543	530	-13	-2.39%	24	33	-6	51	SC	None	STOJT
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	837	828	-9	-1.08%	32	51	-4	79	AD	None	None
43-4171	Receptionists and Information Clerks	11,144	11,250	106	0.95%	632	714	53	1,399	HS	None	STOJT
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	276	246	-30	-10.87%	10	16	-15	11	HS	None	STOJT
43-4199	Information and Record Clerks, All Other	1,577	1,624	47	2.98%	73	91	24	188	HS	None	STOJT
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	18,809	18,615	-194	-1.03%	685	893	-97	1,481			
43-5011	Cargo and Freight Agents	808	849	41	5.07%	33	38	20	91	HS	None	STOJT
43-5021	Couriers and Messengers	709	639	-70	-9.87%	28	32	-35	25	HS	None	STOJT
43-5031	Police, Fire, and Ambulance Dispatchers	989	1,018	29	2.93%	35	50	14	99	HS	None	MTOJT
43-5032	Dispatchers, Except Police, Fire, and Ambulance	2,189	2,158	-31	-1.42%	76	110	-16	170	HS	None	MTOJT
43-5051	Postal Service Clerks	1,082	1,057	-25	-2.31%	46	32	-12	66	HS	None	STOJT
43-5052	Postal Service Mail Carriers	3,172	3,101	-71	-2.24%	113	98	-36	175	HS	None	STOJT
43-5061	Production, Planning, and Expediting Clerks	2,819	2,808	-11	-0.39%	98	165	-6	257	HS	None	MTOJT
43-5071	Shipping, Receiving, and Traffic Clerks	5,010	4,931	-79	-1.58%	168	274	-40	402	HS	None	STOJT

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Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	951	974	23	2.42%	42	51	12	105	HS	None	STOJT
43-6000	Secretaries and Administrative Assistants	21,013	20,670	-343	-1.63%	1,071	1,054	-172	1,953			
43-6011	Executive Secretaries and Executive Administrative Assistants	2,245	2,171	-74	-3.30%	114	112	-37	189	HS	<5	None
43-6012	Legal Secretaries	853	829	-24	-2.81%	43	42	-12	73	HS	None	MTOJT
43-6013	Medical Secretaries	2,522	2,542	20	0.79%	130	128	10	268	HS	None	MTOJT
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	15,393	15,128	-265	-1.72%	784	772	-132	1,424	HS	None	STOJT
43-9000	Other Office and Administrative Support Workers	38,865	38,586	-279	-0.72%	1,960	2,132	-140	3,952			
43-9021	Data Entry Keyers	1,464	1,402	-62	-4.23%	61	82	-31	112	HS	None	STOJT
43-9031	Desktop Publishers	31	29	-2	-6.45%	2	2	-1	3	AD	None	STOJT
43-9041	Insurance Claims and Policy Processing Clerks	5,615	5,721	106	1.89%	200	310	53	563	HS	None	MTOJT
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	393	379	-14	-3.56%	18	22	-7	33	HS	None	STOJT
43-9061	Office Clerks, General	28,538	28,194	-344	-1.21%	1,554	1,546	-172	2,928	HS	None	STOJT
43-9071	Office Machine Operators, Except Computer	243	243	0	0.00%	12	13	0	25	HS	None	STOJT
43-9081	Proofreaders and Copy Markers	33	31	-2	-6.06%	2	2	-1	3	BD	None	None
43-9199	Office and Administrative Support Workers, All Other	2,310	2,352	42	1.82%	98	142	21	261	HS	None	STOJT
45-0000	FARMING, FISHING, AND FORESTRY OCCUPATIONS	17,761	17,494	-267	-1.50%	703	1,804	-134	2,373			
45-1000	Supervisors of Farming, Fishing, and Forestry Workers	747	734	-13	-1.74%	26	71	-6	91			
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	747	734	-13	-1.74%	26	71	-6	91	HS	<5	None
45-2000	Agricultural Workers	13,508	13,396	-112	-0.83%	546	1,381	-56	1,871			
45-2041	Graders and Sorters, Agricultural Products	1,492	1,507	15	1.01%	56	140	8	204	NFE	None	STOJT
45-2091	Agricultural Equipment Operators	1,155	1,151	-4	-0.35%	47	120	-2	165	NFE	None	MTOJT

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Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	5,873	5,828	-45	-0.77%	238	609	-22	825	NFE	None	STOJT
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	4,127	4,059	-68	-1.65%	167	426	-34	559	NFE	None	STOJT
45-2099	Agricultural Workers, All Other	334	327	-7	-2.10%	14	34	-4	44	NFE	None	STOJT
45-3000	Fishing and Hunting Workers	62	61	-1	-1.61%	2	6	0	8			
45-3031	Fishing and Hunting Workers	62	61	-1	-1.61%	2	6	0	8	NFE	None	MTOJT
45-4000	Forest, Conservation, and Logging Workers	3,444	3,303	-141	-4.09%	128	346	-70	404			
45-4022	Logging Equipment Operators	1,847	1,784	-63	-3.41%	70	186	-32	224	HS	None	MTOJT
45-4023	Log Graders and Scalers	329	321	-8	-2.43%	12	34	-4	42	HS	None	MTOJT
45-4029	Logging Workers, All Other	844	776	-68	-8.06%	31	83	-34	80	HS	None	MTOJT
47-0000	CONSTRUCTION AND EXTRACTION OCCUPATIONS	52,359	53,179	820	1.57%	1,590	3,430	410	5,430			
47-1000	Supervisors of Construction and Extraction Workers	5,233	5,333	100	1.91%	148	320	50	518			
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	5,233	5,333	100	1.91%	148	320	50	518	HS	5+	None
47-2000	Construction Trades Workers	37,509	38,243	734	1.96%	1,104	2,430	367	3,901			
47-2011	Boilermakers	51	48	-3	-5.88%	1	4	-2	3	HS	None	App
47-2021	Brickmasons and Blockmasons	528	522	-6	-1.14%	16	30	-3	43	HS	None	App
47-2031	Carpenters	5,367	5,367	0	0.00%	155	315	0	470	HS	None	App
47-2041	Carpet Installers	63	60	-3	-4.76%	2	4	-2	4	NFE	None	STOJT
47-2043	Floor Sanders and Finishers	289	289	0	0.00%	8	16	0	24	NFE	None	MTOJT
47-2044	Tile and Marble Setters	297	299	2	0.67%	8	17	1	26	NFE	None	LTOJT
47-2051	Cement Masons and Concrete Finishers	1,948	1,958	10	0.51%	50	120	5	175	NFE	None	MTOJT
47-2061	Construction Laborers	8,102	8,215	113	1.39%	240	518	56	814	NFE	None	STOJT
47-2071	Paving, Surfacing, and Tamping Equipment Operators	1,049	1,082	33	3.15%	40	71	16	127	HS	None	MTOJT
47-2073	Operating Engineers and Other Construction Equipment Operators	3,999	4,083	84	2.10%	130	270	42	442	HS	None	MTOJT
47-2081	Drywall and Ceiling Tile Installers	440	437	-3	-0.68%	11	24	-2	33	NFE	None	MTOJT
47-2111	Electricians	6,160	6,442	282	4.58%	178	443	141	762	HS	None	App
47-2121	Glaziers	386	391	5	1.30%	11	26	2	39	HS	None	App

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Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
47-2131	Insulation Workers, Floor, Ceiling, and Wall	225	226	1	0.44%	5	16	0	21	NFE	None	STOJT
47-2132	Insulation Workers, Mechanical	166	175	9	5.42%	4	12	4	20	HS	None	App
47-2141	Painters, Construction and Maintenance	1,857	1,833	-24	-1.29%	59	98	-12	145	NFE	None	MTOJT
47-2151	Pipelayers	365	384	19	5.21%	10	25	10	45	NFE	None	STOJT
47-2152	Plumbers, Pipefitters, and Steamfitters	3,294	3,447	153	4.64%	96	225	76	397	HS	None	App
47-2181	Roofers	754	760	6	0.80%	18	49	3	70	NFE	None	MTOJT
47-2211	Sheet Metal Workers	1,250	1,290	40	3.20%	34	80	20	134	HS	None	App
47-2221	Structural Iron and Steel Workers	564	573	9	1.60%	14	42	4	60	HS	None	App
47-3000	Helpers, Construction Trades	2,095	2,153	58	2.77%	66	177	29	272			
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	277	273	-4	-1.44%	8	23	-2	29	NFE	None	STOJT
47-3012	Helpers--Carpenters	241	245	4	1.66%	8	20	2	30	NFE	None	STOJT
47-3013	Helpers--Electricians	441	461	20	4.54%	14	38	10	62	HS	None	STOJT
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	72	71	-1	-1.39%	2	6	0	8	NFE	None	STOJT
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	490	522	32	6.53%	16	42	16	74	HS	None	STOJT
47-3016	Helpers--Roofers	48	49	1	2.08%	2	4	0	6	NFE	None	STOJT
47-3019	Helpers, Construction Trades, All Other	526	532	6	1.14%	16	44	3	63	NFE	None	STOJT
47-4000	Other Construction and Related Workers	5,305	5,385	80	1.51%	211	324	40	575			
47-4011	Construction and Building Inspectors	947	961	14	1.48%	46	56	7	109	HS	5+	MTOJT
47-4031	Fence Erectors	295	300	5	1.69%	8	20	2	30	NFE	None	MTOJT
47-4041	Hazardous Materials Removal Workers	150	158	8	5.33%	6	11	4	21	HS	None	MTOJT
47-4051	Highway Maintenance Workers	3,329	3,373	44	1.32%	132	196	22	350	HS	None	MTOJT
47-4061	Rail-Track Laying and Maintenance Equipment Operators	243	244	1	0.41%	10	13	0	23	HS	None	MTOJT
47-4090	Miscellaneous Construction and Related Workers	169	167	-2	-1.18%	5	14	-1	18	HS	None	MTOJT
47-5000	Extraction Workers	2,217	2,065	-152	-6.86%	62	179	-76	165			
47-5011	Derrick Operators, Oil and Gas	27	22	-5	-18.52%	0	2	-2	0	NFE	None	STOJT

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Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
47-5013	Service Unit Operators, Oil, Gas, and Mining	732	638	-94	-12.84%	18	64	-47	35	NFE	None	MTOJT
47-5022	Excavating and Loading Machine and Dragline Operators, Surface Mining	319	327	8	2.51%	12	22	4	38	HS	<5	MTOJT
47-5041	Continuous Mining Machine Operators	177	184	7	3.95%	6	14	4	24	NFE	None	MTOJT
47-5051	Rock Splitters, Quarry	70	70	0	0.00%	2	6	0	8	NFE	None	STOJT
47-5071	Roustabouts, Oil and Gas	289	242	-47	-16.26%	7	22	-24	5	NFE	None	MTOJT
47-5081	Helpers--Extraction Workers	71	67	-4	-5.63%	2	6	-2	6	HS	None	MTOJT
47-5097	Earth Drillers, Except Oil and Gas; and Explosives Workers, Ordnance Handling Experts, and Blasters	471	461	-10	-2.12%	12	38	-5	45	HS	<5	LTOJT
49-0000	INSTALLATION, MAINTENANCE, AND REPAIR OCCUPATIONS	61,080	62,000	920	1.51%	1,895	3,406	460	5,761			
49-1000	<i>Supervisors of Installation, Maintenance, and Repair Workers</i>	6,157	6,250	93	1.51%	184	315	46	545			
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	6,157	6,250	93	1.51%	184	315	46	545	HS	<5	None
49-2000	<i>Electrical and Electronic Equipment Mechanics, Installers, and Repairers</i>	5,409	5,419	10	0.18%	144	358	5	507			
49-2011	Computer, Automated Teller, and Office Machine Repairers	1,121	1,136	15	1.34%	32	76	8	116	SC	None	STOJT
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers	53	56	3	5.66%	2	4	2	8	AD	None	MTOJT
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	1,789	1,774	-15	-0.84%	54	126	-8	172	PS	None	MTOJT
49-2092	Electric Motor, Power Tool, and Related Repairers	168	164	-4	-2.38%	7	10	-2	15	HS	<5	MTOJT
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	165	152	-13	-7.88%	3	8	-6	5	PS	None	LTOJT
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	531	537	6	1.13%	10	26	3	39	PS	None	LTOJT
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	232	234	2	0.86%	4	12	1	17	PS	<5	MTOJT

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Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	569	556	-13	-2.28%	13	39	-6	46	PS	None	STOJT
49-2098	Security and Fire Alarm Systems Installers	743	772	29	3.90%	18	58	14	90	HS	None	MTOJT
49-3000	Vehicle and Mobile Equipment Mechanics, Installers, and Repairers	17,365	17,542	177	1.02%	519	996	88	1,603			
49-3011	Aircraft Mechanics and Service Technicians	814	842	28	3.44%	24	38	14	76	PS	None	None
49-3021	Automotive Body and Related Repairers	1,530	1,570	40	2.61%	50	79	20	149	HS	None	LTOJT
49-3023	Automotive Service Technicians and Mechanics	6,237	6,219	-18	-0.29%	174	367	-9	532	PS	None	STOJT
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	3,848	3,900	52	1.35%	104	214	26	344	HS	None	LTOJT
49-3041	Farm Equipment Mechanics and Service Technicians	826	885	59	7.14%	26	49	30	105	HS	None	LTOJT
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	1,391	1,418	27	1.94%	44	80	14	138	HS	None	LTOJT
49-3043	Rail Car Repairers	272	262	-10	-3.68%	8	16	-5	19	HS	None	LTOJT
49-3051	Motorboat Mechanics and Service Technicians	313	295	-18	-5.75%	13	16	-9	20	HS	None	LTOJT
49-3052	Motorcycle Mechanics	248	248	0	0.00%	10	12	0	22	PS	None	STOJT
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	401	408	7	1.75%	18	20	4	42	HS	None	MTOJT
49-3092	Recreational Vehicle Service Technicians	156	157	1	0.64%	5	11	0	16	HS	None	LTOJT
49-3093	Tire Repairers and Changers	1,242	1,249	7	0.56%	40	86	4	130	HS	None	STOJT
49-9000	Other Installation, Maintenance, and Repair Occupations	32,149	32,789	640	1.99%	1,047	1,738	320	3,105			
49-9011	Mechanical Door Repairers	542	570	28	5.17%	14	28	14	56	HS	None	MTOJT
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	421	418	-3	-0.71%	10	21	-2	29	HS	None	MTOJT
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	3,094	3,245	151	4.88%	84	186	76	346	PS	None	LTOJT
49-9031	Home Appliance Repairers	164	154	-10	-6.10%	6	8	-5	9	HS	None	MTOJT
49-9041	Industrial Machinery Mechanics	6,967	7,160	193	2.77%	218	345	96	659	HS	None	LTOJT

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Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
49-9043	Maintenance Workers, Machinery	853	864	11	1.29%	30	38	6	74	HS	None	LTOJT
49-9044	Millwrights	854	865	11	1.29%	27	42	6	75	HS	None	App
49-9051	Electrical Power-Line Installers and Repairers	2,200	2,286	86	3.91%	48	120	43	211	HS	None	LTOJT
49-9052	Telecommunications Line Installers and Repairers	1,213	1,254	41	3.38%	26	94	20	140	HS	None	LTOJT
49-9062	Medical Equipment Repairers	484	495	11	2.27%	21	25	6	52	AD	None	MTOJT
49-9069	Precision Instrument and Equipment Repairers, All Other	186	192	6	3.23%	8	10	3	21	HS	None	LTOJT
49-9071	Maintenance and Repair Workers, General	11,831	11,884	53	0.45%	409	611	26	1,046	HS	None	MTOJT
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	120	106	-14	-11.67%	6	7	-7	6	HS	None	STOJT
49-9094	Locksmiths and Safe Repairers	141	138	-3	-2.13%	6	8	-2	12	HS	None	LTOJT
49-9096	Riggers	101	92	-9	-8.91%	2	6	-4	4	HS	None	MTOJT
49-9098	Helpers--Installation, Maintenance, and Repair Workers	1,316	1,357	41	3.12%	68	94	20	182	HS	None	STOJT
49-9099	Installation, Maintenance, and Repair Workers, All Other	1,523	1,572	49	3.22%	60	87	24	171	HS	None	MTOJT
51-0000	PRODUCTION OCCUPATIONS	117,224	113,899	-3,325	-2.84%	4,280	7,435	-1,662	10,053			
51-1000	Supervisors of Production Workers	8,926	8,839	-87	-0.97%	264	518	-44	738			
51-1011	First-Line Supervisors of Production and Operating Workers	8,926	8,839	-87	-0.97%	264	518	-44	738	HS	<5	None
51-2000	Assemblers and Fabricators	16,633	15,579	-1,054	-6.34%	596	1,010	-527	1,079			
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	159	164	5	3.14%	6	8	2	16	HS	None	MTOJT
51-2021	Coil Winders, Tapers, and Finishers	209	183	-26	-12.44%	8	11	-13	6	HS	None	MTOJT
51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	1,620	1,551	-69	-4.26%	66	88	-34	120	HS	None	MTOJT
51-2041	Structural Metal Fabricators and Fitters	1,016	1,002	-14	-1.38%	22	74	-7	89	HS	None	MTOJT
51-2051	Fiberglass Laminators and Fabricators	414	370	-44	-10.63%	15	24	-22	17	HS	None	MTOJT
51-2090	Miscellaneous Assemblers and Fabricators	13,133	12,234	-899	-6.85%	478	800	-450	828	HS	None	MTOJT

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Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
51-3000	Food Processing Workers	19,193	19,323	130	0.68%	799	1,242	65	2,106			
51-3011	Bakers	1,428	1,389	-39	-2.73%	78	94	-20	152	NFE	None	LTOJT
51-3021	Butchers and Meat Cutters	881	895	14	1.59%	35	59	7	101	NFE	None	LTOJT
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	8,796	8,880	84	0.95%	346	590	42	978	NFE	None	STOJT
51-3023	Slaughterers and Meat Packers	1,215	1,240	25	2.06%	48	82	12	142	NFE	None	STOJT
51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	78	80	2	2.56%	4	4	1	9	NFE	None	MTOJT
51-3092	Food Batchmakers	2,109	2,151	42	1.99%	114	144	21	279	HS	None	MTOJT
51-3093	Food Cooking Machine Operators and Tenders	324	327	3	0.93%	21	30	2	53	HS	None	MTOJT
51-3099	Food Processing Workers, All Other	4,362	4,361	-1	-0.02%	152	240	0	392	NFE	None	MTOJT
51-4000	Metal Workers and Plastic Workers	19,598	19,174	-424	-2.16%	582	1,219	-212	1,589			
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	1,208	1,172	-36	-2.98%	34	90	-18	106	HS	None	MTOJT
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	831	840	9	1.08%	30	42	4	76	HS	None	MTOJT
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	1,958	1,900	-58	-2.96%	65	116	-29	152	HS	None	MTOJT
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	32	29	-3	-9.38%	1	2	-2	1	HS	None	MTOJT
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	735	679	-56	-7.62%	30	40	-28	42	HS	None	MTOJT
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	464	419	-45	-9.70%	14	24	-22	16	HS	None	MTOJT
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	85	80	-5	-5.88%	2	5	-2	5	HS	None	MTOJT
51-4041	Machinists	2,477	2,520	43	1.74%	82	147	22	251	HS	None	LTOJT
51-4051	Metal-Refining Furnace Operators and Tenders	329	332	3	0.91%	8	20	2	30	HS	None	MTOJT

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Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
51-4071	Foundry Mold and Coremakers	80	69	-11	-13.75%	2	4	-6	0	HS	None	MTOJT
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	1,681	1,594	-87	-5.18%	41	100	-44	97	HS	None	MTOJT
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,564	1,536	-28	-1.79%	49	91	-14	126	HS	None	MTOJT
51-4111	Tool and Die Makers	539	516	-23	-4.27%	20	28	-12	36	PS	None	LTOJT
51-4121	Welders, Cutters, Solderers, and Brazers	5,764	5,709	-55	-0.95%	144	398	-28	514	HS	None	MTOJT
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	758	714	-44	-5.80%	18	51	-22	47	HS	None	MTOJT
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	293	282	-11	-3.75%	9	17	-6	20	HS	None	MTOJT
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	303	302	-1	-0.33%	8	18	0	26	HS	None	MTOJT
51-4194	Tool Grinders, Filers, and Sharpeners	171	171	0	0.00%	14	6	0	20	HS	None	MTOJT
51-4199	Metal Workers and Plastic Workers, All Other	168	158	-10	-5.95%	5	10	-5	10	HS	None	MTOJT
51-5100	Printing Workers	2,753	2,402	-351	-12.75%	101	159	-176	84			
51-5111	Prepress Technicians and Workers	166	146	-20	-12.05%	5	12	-10	7	PS	None	None
51-5112	Printing Press Operators	2,258	1,974	-284	-12.58%	78	128	-142	64	HS	None	MTOJT
51-5113	Print Binding and Finishing Workers	329	282	-47	-14.29%	18	19	-24	13	HS	None	MTOJT
51-6000	Textile, Apparel, and Furnishings Workers	4,604	4,173	-431	-9.36%	244	242	-216	270			
51-6011	Laundry and Dry-Cleaning Workers	1,925	1,734	-191	-9.92%	111	106	-96	121	NFE	None	STOJT
51-6021	Pressers, Textile, Garment, and Related Materials	276	220	-56	-20.29%	14	14	-28	0	NFE	None	STOJT
51-6031	Sewing Machine Operators	939	923	-16	-1.70%	54	40	-8	86	NFE	None	STOJT
51-6052	Tailors, Dressmakers, and Custom Sewers	62	58	-4	-6.45%	4	2	-2	4	NFE	None	MTOJT
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	71	63	-8	-11.27%	2	3	-4	1	HS	None	MTOJT
51-6064	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	279	243	-36	-12.90%	12	11	-18	5	HS	None	MTOJT

For training codes, refer to page 89.

2020-2022 Arkansas Statewide Occupational Projections

Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
51-6093	Upholsterers	150	142	-8	-5.33%	4	7	-4	7	HS	None	MTOJT
51-6099	Textile, Apparel, and Furnishings Workers, All Other	53	54	1	1.89%	2	4	0	6	HS	None	STOJT
51-7000	Woodworkers	3,813	3,651	-162	-4.25%	145	239	-81	303			
51-7011	Cabinetmakers and Bench Carpenters	1,287	1,229	-58	-4.51%	48	61	-29	80	HS	None	MTOJT
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	1,308	1,263	-45	-3.44%	40	92	-22	110	HS	None	MTOJT
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	1,148	1,093	-55	-4.79%	54	82	-28	108	HS	None	MTOJT
51-8000	Plant and System Operators	4,371	4,341	-30	-0.69%	122	246	-15	353			
51-8012	Power Distributors and Dispatchers	304	304	0	0.00%	7	18	0	25	HS	None	LTOJT
51-8013	Power Plant Operators	260	251	-9	-3.46%	6	15	-4	17	HS	None	LTOJT
51-8021	Stationary Engineers and Boiler Operators	477	459	-18	-3.77%	18	28	-9	37	HS	None	LTOJT
51-8031	Water and Wastewater Treatment Plant and System Operators	2,437	2,451	14	0.57%	70	122	7	199	HS	None	LTOJT
51-8091	Chemical Plant and System Operators	222	226	4	1.80%	5	16	2	23	HS	None	MTOJT
51-8092	Gas Plant Operators	171	162	-9	-5.26%	4	12	-4	12	HS	None	LTOJT
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	295	292	-3	-1.02%	6	21	-2	25	HS	None	MTOJT
51-9000	Other Production Occupations	37,333	36,417	-916	-2.45%	1,426	2,560	-458	3,528			
51-9011	Chemical Equipment Operators and Tenders	1,219	1,236	17	1.39%	28	90	8	126	HS	None	MTOJT
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	629	653	24	3.82%	15	47	12	74	HS	None	MTOJT
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	627	634	7	1.12%	20	45	4	69	HS	None	MTOJT
51-9022	Grinding and Polishing Workers, Hand	839	723	-116	-13.83%	24	56	-58	22	NFE	None	MTOJT
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	1,505	1,489	-16	-1.06%	47	106	-8	145	HS	None	MTOJT
51-9031	Cutters and Trimmers, Hand	34	32	-2	-5.88%	1	2	-1	2	NFE	None	STOJT

2020-2022 Arkansas Statewide Occupational Projections

Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	927	900	-27	-2.91%	31	62	-14	79	HS	None	MTOJT
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	1,365	1,335	-30	-2.20%	48	84	-15	117	HS	None	MTOJT
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	380	381	1	0.26%	14	20	0	34	HS	None	MTOJT
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	6,582	6,231	-351	-5.33%	236	456	-176	516	HS	None	MTOJT
51-9071	Jewelers and Precious Stone and Metal Workers	310	303	-7	-2.26%	20	16	-4	32	HS	None	LTOJT
51-9081	Dental Laboratory Technicians	364	377	13	3.57%	16	26	6	48	HS	None	MTOJT
51-9082	Medical Appliance Technicians	96	97	1	1.04%	4	6	0	10	HS	None	MTOJT
51-9083	Ophthalmic Laboratory Technicians	235	241	6	2.55%	10	16	3	29	HS	None	MTOJT
51-9111	Packaging and Filling Machine Operators and Tenders	4,255	4,254	-1	-0.02%	177	254	0	431	HS	None	MTOJT
51-9123	Painting, Coating, and Decorating Workers	73	69	-4	-5.48%	2	4	-2	4	NFE	None	MTOJT
51-9124	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	1,484	1,451	-33	-2.22%	41	96	-16	121	HS	None	MTOJT
51-9161	Computer Numerically Controlled Tool Operators	1,428	1,420	-8	-0.56%	33	91	-4	120	HS	None	MTOJT
51-9162	Computer Numerically Controlled Tool Programmers	103	105	2	1.94%	2	6	1	9	PS	None	MTOJT
51-9191	Adhesive Bonding Machine Operators and Tenders	433	396	-37	-8.55%	16	26	-18	24	HS	None	MTOJT
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	171	171	0	0.00%	12	12	0	24	HS	None	MTOJT
51-9193	Cooling and Freezing Equipment Operators and Tenders	337	345	8	2.37%	12	22	4	38	HS	None	MTOJT
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	313	314	1	0.32%	12	19	0	31	HS	None	LTOJT
51-9196	Paper Goods Machine Setters, Operators, and Tenders	2,308	2,156	-152	-6.59%	90	130	-76	144	HS	None	MTOJT
51-9198	Helpers--Production Workers	7,781	7,737	-44	-0.57%	400	636	-22	1,014	HS	None	STOJT
51-9199	Production Workers, All Other	2,711	2,571	-140	-5.16%	92	173	-70	195	HS	None	MTOJT

For training codes, refer to page 89.

2020-2022 Arkansas Statewide Occupational Projections

Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
53-0000	TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS	138,032	136,914	-1,118	-0.81%	6,005	8,961	-559	14,407			
53-1000	Supervisors of Transportation and Material Moving Workers	4,723	4,750	27	0.57%	133	288	14	435			
53-1047	FirstLine Supervisors of Transportation & Material Moving Workers, Exc Aircraft Cargo Handling Supervisor	4,546	4,572	26	0.57%	132	286	13	431	HS	<5	None
53-2000	Air Transportation Workers	653	678	25	3.83%	18	42	12	72			
53-2011	Airline Pilots, Copilots, and Flight Engineers	193	199	6	3.11%	6	12	3	21	BD	<5	MTOJT
53-2012	Commercial Pilots	333	347	14	4.20%	10	22	7	39	HS	None	MTOJT
53-3000	Motor Vehicle Operators	63,035	61,791	-1,244	-1.97%	2,803	3,549	-622	5,730			
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	28	28	0	0.00%	1	2	0	3	HS	None	MTOJT
53-3031	Driver/Sales Workers	3,306	3,069	-237	-7.17%	130	190	-118	202	HS	None	STOJT
53-3032	Heavy and Tractor-Trailer Truck Drivers	39,567	39,287	-280	-0.71%	1,616	2,359	-140	3,835	PS	None	STOJT
53-3033	Light Truck or Delivery Services Drivers	9,529	8,887	-642	-6.74%	378	551	-321	608	HS	None	STOJT
53-3052	Bus Drivers, Transit and Intercity	466	451	-15	-3.22%	35	18	-8	45	HS	None	MTOJT
53-3058	Passenger Vehicle Drivers, Except Bus Drivers, Transit and Intercity	9,921	9,842	-79	-0.80%	620	418	-40	998	NFE	None	STOJT
53-3099	Motor Vehicle Operators, All Other	218	227	9	4.13%	23	12	4	39	NFE	None	STOJT
53-4000	Rail Transportation Workers	1,518	1,481	-37	-2.44%	30	90	-18	102			
53-4013	Rail Yard Engineers, Dinkey Operators, and Hostlers	158	144	-14	-8.86%	3	8	-7	4	HS	None	MTOJT
53-4022	Railroad Brake, Signal, and Switch Operators and Locomotive Firers	194	185	-9	-4.64%	4	12	-4	12	HS	None	MTOJT
53-5000	Water Transportation Workers	209	201	-8	-3.83%	6	15	-4	17			
53-5021	Captains, Mates, and Pilots of Water Vessels	90	87	-3	-3.33%	2	6	-2	6	PS	<5	None
53-6000	Other Transportation Workers	2,435	2,423	-12	-0.49%	110	198	-6	302			
53-6011	Bridge and Lock Tenders	71	72	1	1.41%	2	4	0	6	HS	None	STOJT
53-6021	Parking Lot Attendants	358	332	-26	-7.26%	16	32	-13	35	NFE	None	STOJT

2020-2022 Arkansas Statewide Occupational Projections

Standard Occupational Classification (SOC)		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2020 Estimated	2022 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
53-6031	Automotive and Watercraft Service Attendants	1,520	1,534	14	0.92%	69	134	7	210	NFE	None	STOJT
53-6041	Traffic Technicians	46	47	1	2.17%	2	2	0	4	HS	None	MTOJT
53-6051	Transportation Inspectors	185	184	-1	-0.54%	6	12	0	18	HS	None	MTOJT
53-6061	Transportation Attendants, Except Flight Attendants	145	141	-4	-2.76%	12	6	-2	16	HS	None	STOJT
53-6098	Aircraft Service Attendants and Transportation Workers, All Other	110	113	3	2.73%	4	6	2	12	HS	None	STOJT
53-7000	Material Moving Workers	65,459	65,590	131	0.20%	2,904	4,780	66	7,750			
53-7011	Conveyor Operators and Tenders	391	394	3	0.77%	11	34	2	47	NFE	None	STOJT
53-7021	Crane and Tower Operators	766	791	25	3.26%	22	54	12	88	HS	<5	MTOJT
53-7051	Industrial Truck and Tractor Operators	8,367	8,310	-57	-0.68%	238	572	-28	782	NFE	None	STOJT
53-7061	Cleaners of Vehicles and Equipment	4,951	5,040	89	1.80%	235	394	44	673	NFE	None	STOJT
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	21,694	21,565	-129	-0.59%	928	1,683	-64	2,547	NFE	None	STOJT
53-7063	Machine Feeders and Offbearers	1,937	1,929	-8	-0.41%	90	126	-4	212	NFE	None	STOJT
53-7064	Packers and Packagers, Hand	5,584	5,599	15	0.27%	314	392	8	714	NFE	None	STOJT
53-7065	Stockers and Order Fillers	19,217	19,343	126	0.66%	946	1,334	63	2,343	HS	None	STOJT
53-7073	Wellhead Pumpers	34	31	-3	-8.82%	1	2	-2	1	HS	<5	MTOJT
53-7081	Refuse and Recyclable Material Collectors	2,258	2,325	67	2.97%	110	170	34	314	NFE	None	STOJT
53-7121	Tank Car, Truck, and Ship Loaders	76	76	0	0.00%	3	6	0	9	NFE	None	STOJT
53-7199	Material Moving Workers, All Other	111	114	3	2.70%	4	8	2	14	NFE	None	STOJT

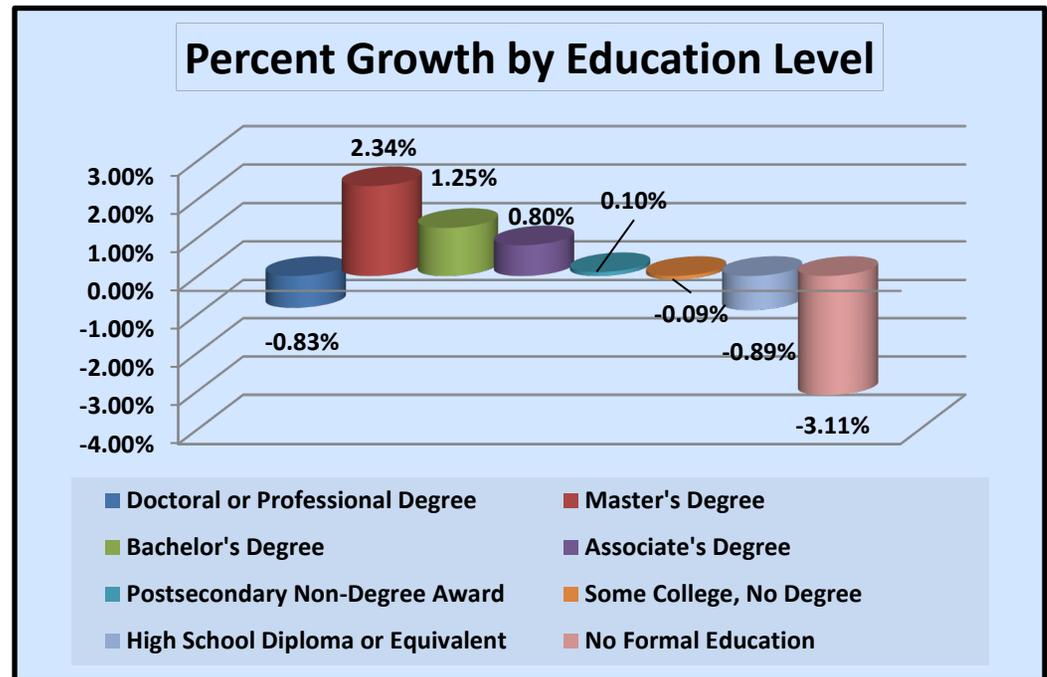
For training codes, refer to page 89.

2020-2022 Projections by Education Level

Education Level	2020 Estimated Employment	2022 Projected Employment	Numeric Change	Percent Change	Annual Exits	Annual Transfers	Annual Change	Total Annual Openings
Doctoral or professional degree	31,430	31,691	261	0.83%	811	789	130	1,730
Master's degree	21,174	21,669	495	2.34%	579	880	247	1,706
Bachelor's degree	279,523	283,011	3,488	1.25%	7,962	12,768	1,745	22,475
Associate's degree	27,145	27,363	218	0.80%	859	1,295	109	2,263
Postsecondary non-degree award	110,956	111,068	112	0.10%	4,387	5,875	54	10,316
Some college, no degree	30,518	30,491	-27	-0.09%	1,529	1,417	-12	2,934
High school diploma or equivalent	598,086	592,789	-5,297	-0.89%	25,716	34,542	-2,657	57,601
No formal educational credential	332,512	322,166	-10,346	-3.11%	19,832	25,160	-5,172	39,820

Education Outlook

Given the pandemic of 2020, education may play a role on who can better weather the pandemic storm. Occupations requiring no formal education, could lose 10,346 jobs between first quarter 2020 and first quarter 2022. Those requiring a high school education could lose 5,297. However, occupations requiring a Bachelor's Degree are estimated to add 3,488 jobs. On the other hand, job opportunities should be plenty for jobs not requiring a college education, with 97,421 annual job openings during the 2020-2022 projection period. At 2.34 percent, occupations requiring a Master's Degree are growing the fastest. Occupations requiring a college degree are forecast to add 4,463 jobs into the Arkansas job market and have a combined 28,174 annual openings.



Annual Openings by Education Level



Hot Jobs by Educational Level (Ordered by Education Type and Total Annual Openings)

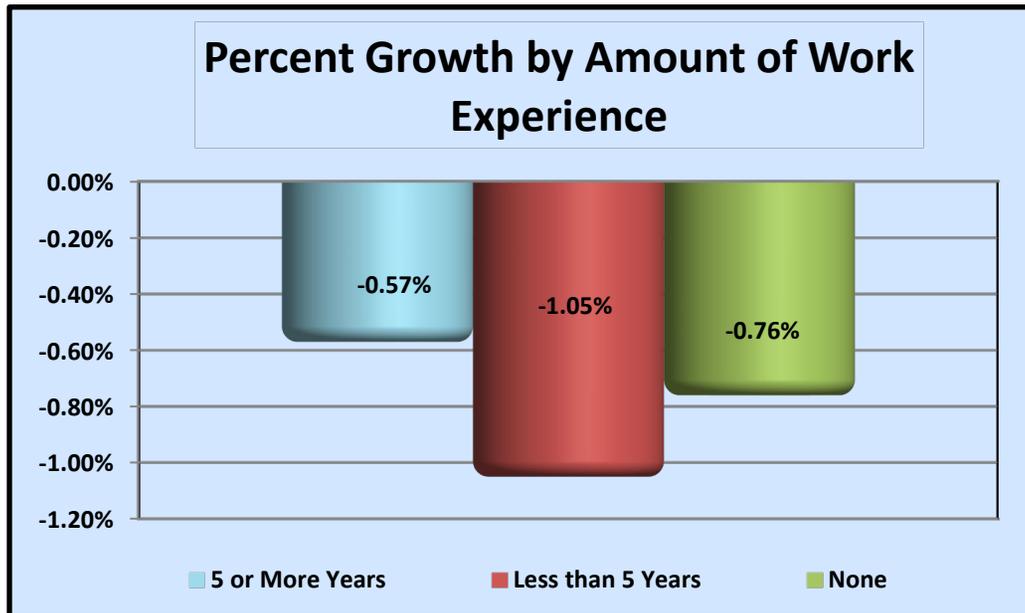
Standard Occupational Classification (SOC)		Employment		Change		Annual Openings				Education/Training Assignments	
Code	Title	2020 Estimated Employment	2022 Projected Employment	Numeric	Percent	Exits	Transfers	Change	Total	Work Experience	Job Training
Doctoral or Professional Degree											
23-1011	Lawyers	4,010	4,063	53	1.32%	85	94	26	205	None	None
25-1042	Biological Science Teachers, Postsecondary	1,713	1,731	18	1.05%	64	64	9	137	None	None
29-1051	Pharmacists	3,169	3,151	-18	-0.57%	66	56	-9	113	None	None
Master's Degree											
29-1171	Nurse Practitioners	2,714	2,980	266	9.80%	59	82	133	274	None	None
21-1012	Educational, Guidance, School, and Vocational Counselors	2,250	2,278	28	1.24%	74	125	14	213	None	None
11-9032	Education Administrators, Elementary and Secondary School	2,506	2,528	22	0.88%	62	102	11	175	5+	None
Bachelor's Degree											
11-1021	General and Operations Managers	21,963	22,214	251	1.14%	448	1,192	126	1,766	5+	None
29-1141	Registered Nurses	26,495	26,664	169	0.64%	720	553	84	1,357	None	None
21-2011	Clergy	11,962	12,274	312	2.61%	516	623	156	1,295	None	MTOJT
Associate's Degree											
25-2011	Preschool Teachers, Except Special Education	5,090	5,066	-24	-0.47%	204	253	-12	445	None	None
23-2011	Paralegals and Legal Assistants	2,091	2,155	64	3.06%	74	129	32	235	None	None
31-2021	Physical Therapist Assistants	1,364	1,397	33	2.42%	54	89	16	159	None	None
Postsecondary Non-Degree Award/Some College, No Degree											
53-3032	Heavy and Tractor-Trailer Truck Drivers	39,567	39,287	-280	-0.71%	1,616	2,359	-140	3,835	None	STOJT
31-1131	Nursing Assistants	18,760	18,621	-139	-0.74%	1,002	909	-70	1,841	None	None
43-3031	Bookkeeping, Accounting, and Auditing Clerks	13,722	13,652	-70	-0.51%	823	622	-35	1,410	None	MTOJT
High School Diploma or Equivalent											
11-9013	Farmers, Ranchers, and Other Agricultural Managers	54,168	52,812	-1,356	-2.50%	3,458	1,594	-678	4,374	5+	None
43-9061	Office Clerks, General	28,538	28,194	-344	-1.21%	1,554	1,546	-172	2,928	None	STOJT
31-1120	Home Health and Personal Care Aides	22,842	22,863	21	0.09%	1,410	1,165	10	2,585	None	STOJT
No Formal Educational Credential											
35-3023	Fast Food and Counter Workers	40,394	37,251	-3,143	-7.78%	3,622	3,460	-1,572	5,510	None	STOJT
41-2011	Cashiers	28,567	28,018	-549	-1.92%	2,383	2,390	-274	4,499	None	STOJT
41-2031	Retail Salespersons	38,185	36,892	-1,293	-3.39%	2,104	2,810	-646	4,268	None	STOJT

While formal education training is important, other factors are important or required by employers to receive competency in a particular job or to even be considered for certain jobs. One of these factors is work experience. Many occupations require some work experience in their line of work, especially those in career ladder occupations. For example, to become a manager, most employees need experience working in the line of work they will be managing. The following table shows projections by length of experience generally recommended or required.

2020-2022 Projections by Amount of Work Experience

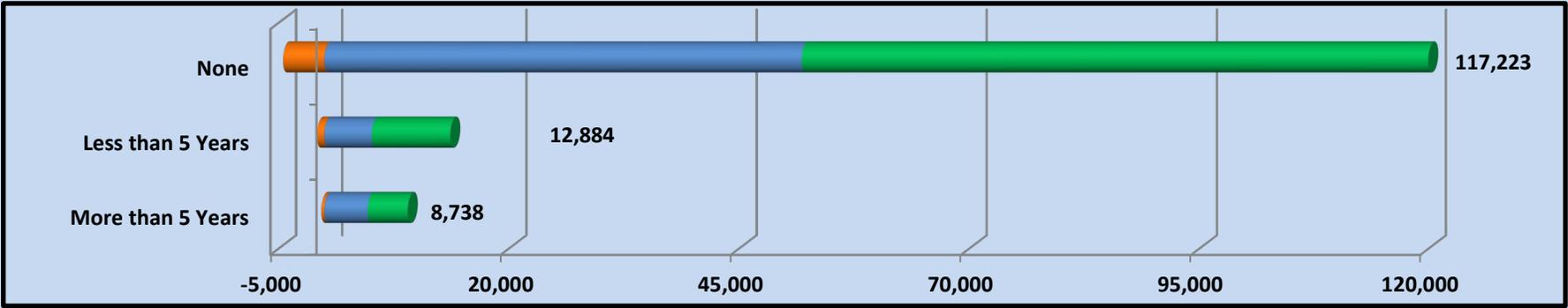
Amount of Work Experience	2020 Estimated Employment	2022 Projected Employment	Numeric Change	Percent Change	Annual Exits	Annual Transfers	Annual Change	Total Annual Openings
5 years or more	108,761	108,137	-624	-0.57%	4,701	4,349	-312	8,738
Less than 5 years	149,284	147,722	-1,562	-1.05%	5,133	8,535	-784	12,884
None	1,173,299	1,164,389	-8,910	-0.76%	51,841	69,842	-4,460	117,223

Work Experience Outlook



Annual Openings by Amount of Work Experience

Amount of Work Experience



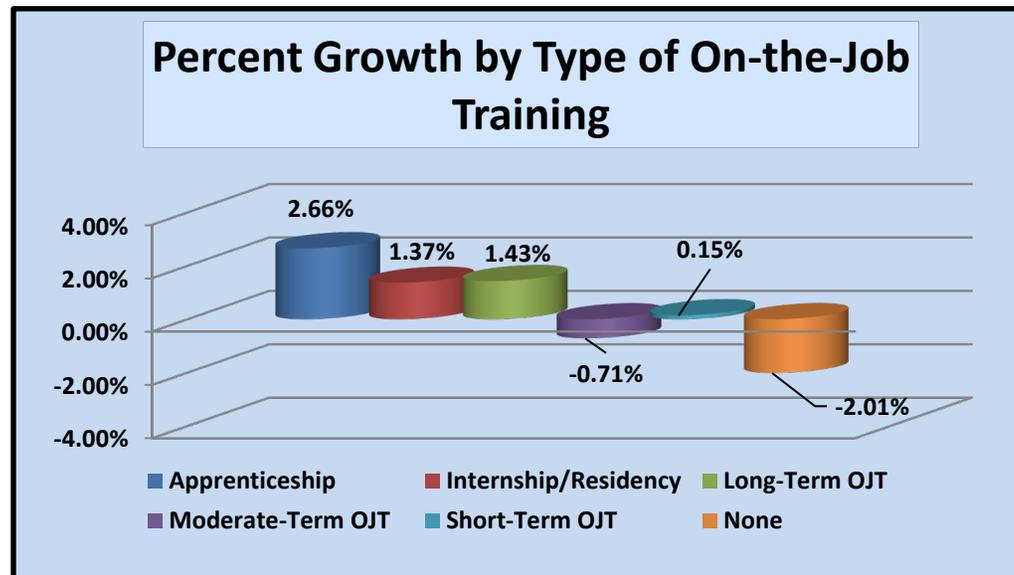
■ Exits ■ Transfers ■ Change Total

Another factor in determining full competency in an occupation is on-the-job training. Many occupations require additional training beyond formal education. Many jobs in education and in the medical field require internships or residency. Many skills-trade occupations recommend or require apprenticeship programs. The following table shows projections by type of training needed.

2020-2022 Projections by Type of On-the-Job Training

Job Training	2020 Estimated Employment	2022 Projected Employment	Numeric Change	Percent Change	Annual Exits	Annual Transfers	Annual Change	Total Annual Openings
Apprenticeship	18,912	19,416	504	2.66%	549	1,241	250	2,040
Internship/residency	14,045	14,237	192	1.37%	306	402	97	805
Long-term on-the-job training	47,753	48,437	684	1.43%	1,530	2,554	340	4,424
Moderate-term on-the-job training	268,630	266,721	-1,909	-0.71%	9,680	15,835	-956	24,559
None	518,986	519,743	757	0.15%	18,232	23,645	373	42,250
Short-term on-the-job training	563,018	551,694	-11,324	-2.01%	31,378	39,049	-5,660	64,767

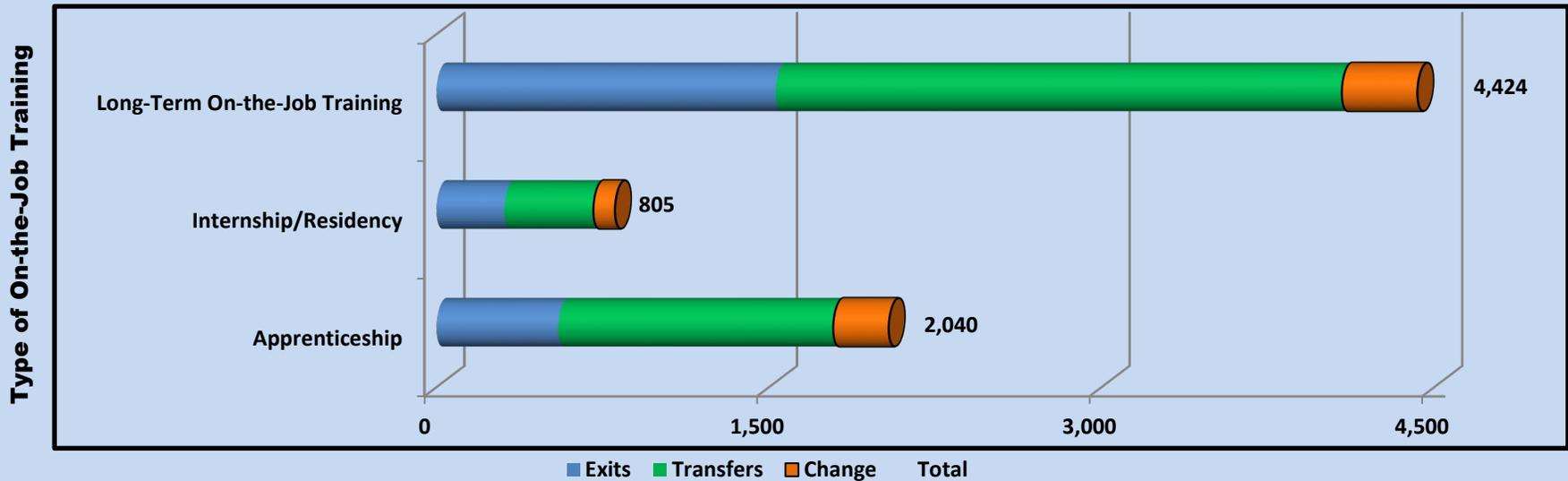
Training Outlook



Annual Openings by Type of On-the-Job Training-Chart 1



Annual Openings by Type of On-the-Job Training-Chart 2



What matters most when looking for a job is not necessarily education alone or even your experience or additional on-the-job training, but the total package. Each occupation has a recommended path to become competent in that field. Every occupation has a recommended level of education, the length of work experience generally needed, and any additional on-the-job training needed. However, keep in mind that some employers may have more requirements, and some may even have less. The following table shows projections by education/training path.

2019-2021 Projections by Education Training Path

Education	Work Experience	Job Training	2020 Estimated Employment	2022 Projected Employment	Numeric Change	Percent Change	Annual Exits	Annual Transfers	Annual Change	Total Annual Openings
Doctoral or Professional Degree	5 Years or More	Short-Term On-the-Job Training	482	478	-4	-0.83%	10	12	-2	20
Doctoral or Professional Degree	Less than 5 Years	None	2,333	2,391	58	2.49%	88	88	28	204
Doctoral or Professional Degree	None	Internship/Residency	7,135	7,200	65	0.91%	122	106	32	260
Doctoral or Professional Degree	None	None	21,480	21,622	142	0.66%	591	583	72	1,246
Master's Degree	5 Years or More	None	4,162	4,192	30	0.72%	132	170	15	317
Master's Degree	Less than 5 Years	None	1,606	1,612	6	0.37%	40	66	3	109
Master's Degree	None	Internship/Residency	5,000	5,098	98	1.96%	128	227	50	405
Master's Degree	None	None	10,406	10,767	361	3.47%	279	417	179	875
Bachelor's Degree	5 Years or More	None	42,098	42,703	605	1.44%	868	2,103	302	3,273
Bachelor's Degree	Less than 5 Years	Moderate-Term On-the-Job Training	213	219	6	2.82%	6	12	3	21
Bachelor's Degree	Less than 5 Years	None	40,889	41,480	591	1.45%	1,181	1,948	296	3,425
Bachelor's Degree	Less than 5 Years	Short-Term On-the-Job Training	229	238	9	3.93%	8	13	4	25
Bachelor's Degree	None	Internship/Residency	1,910	1,939	29	1.52%	56	69	15	140
Bachelor's Degree	None	Long-Term On-the-Job Training	4,796	4,834	38	0.79%	167	219	19	405
Bachelor's Degree	None	Moderate-Term On-the-Job Training	33,373	34,065	692	2.07%	1,079	1,758	349	3,186
Bachelor's Degree	None	None	155,091	156,615	1,524	0.98%	4,578	6,596	760	11,935
Bachelor's Degree	None	Short-Term On-the-Job Training	924	918	-6	-0.65%	19	50	-3	66
Associate's Degree	Less than 5 Years	None	636	632	-4	-0.63%	16	20	-2	34
Associate's Degree	None	Long-Term On-the-Job Training	641	637	-4	-0.62%	31	39	-2	68

Education	Work Experience	Job Training	2020 Estimated Employment	2022 Projected Employment	Numeric Change	Percent Change	Annual Exits	Annual Transfers	Annual Change	Total Annual Openings
Associate's Degree	None	Moderate-Term On-the-Job Training	1,747	1,785	38	2.18%	46	123	20	189
Associate's Degree	None	None	23,831	24,033	202	0.85%	756	1,094	100	1,950
Associate's Degree	None	Short-Term On-the-Job Training	290	276	-14	-4.83%	10	19	-7	22
Postsecondary Non-Degree Award	5 Years or More	Moderate-Term On-the-Job Training	29	30	1	3.45%	2	2	0	4
Postsecondary Non-Degree Award	Less than 5 Years	Moderate-Term On-the-Job Training	1,317	1,357	40	3.04%	29	50	20	99
Postsecondary Non-Degree Award	Less than 5 Years	None	301	292	-9	-2.99%	13	22	-5	30
Postsecondary Non-Degree Award	Less than 5 Years	Short-Term On-the-Job Training	834	865	31	3.72%	24	39	16	79
Postsecondary Non-Degree Award	None	Long-Term On-the-Job Training	6,865	7,068	203	2.96%	169	360	101	630
Postsecondary Non-Degree Award	None	Moderate-Term On-the-Job Training	1,900	1,887	-13	-0.68%	56	132	-7	181
Postsecondary Non-Degree Award	None	None	52,681	52,867	186	0.35%	2,267	2,469	92	4,828
Postsecondary Non-Degree Award	None	Short-Term On-the-Job Training	47,029	46,702	-327	-0.70%	1,827	2,801	-163	4,465
Some College, No Degree	None	Long-Term On-the-Job Training	60	56	-4	-6.67%	2	4	-2	4
Some College, No Degree	None	Moderate-Term On-the-Job Training	13,722	13,652	-70	-0.51%	823	622	-35	1,410
Some College, No Degree	None	None	15,072	15,117	45	0.30%	648	682	23	1,353
Some College, No Degree	None	Short-Term On-the-Job Training	1,664	1,666	2	0.12%	56	109	2	167
High School Diploma or Equivalent	5 Years or More	Long-Term On-the-Job Training	4	4	0	0.00%	0	0	0	0
High School Diploma or Equivalent	5 Years or More	Moderate-Term On-the-Job Training	947	961	14	1.48%	46	56	7	109
High School Diploma or Equivalent	5 Years or More	None	61,039	59,769	-1,270	-2.08%	3,643	2,006	-634	5,015
High School Diploma or Equivalent	Less than 5 Years	Long-Term On-the-Job Training	471	461	-10	-2.12%	12	38	-5	45
High School Diploma or Equivalent	Less than 5 Years	Moderate-Term On-the-Job Training	4,642	4,729	87	1.87%	127	224	42	393
High School Diploma or Equivalent	Less than 5 Years	None	84,937	83,236	-1,701	-2.00%	3,023	5,218	-851	7,390
High School Diploma or Equivalent	None	Apprenticeship	18,912	19,416	504	2.66%	549	1,241	250	2,040

Education	Work Experience	Job Training	2020 Estimated Employment	2022 Projected Employment	Numeric Change	Percent Change	Annual Exits	Annual Transfers	Annual Change	Total Annual Openings
High School Diploma or Equivalent	None	Long-Term On-the-Job Training	30,537	31,076	539	1.77%	931	1,628	269	2,828
High School Diploma or Equivalent	None	Moderate-Term On-the-Job Training	182,504	180,656	-1,848	-1.01%	6,314	10,928	-928	16,315
High School Diploma or Equivalent	None	None	2,424	2,415	-9	-0.37%	109	163	-5	267
High School Diploma or Equivalent	None	Short-Term On-the-Job Training	211,669	210,066	-1,603	-0.76%	10,962	13,040	-802	23,200
No Formal Educational Credential	Less than 5 Years	Moderate-Term On-the-Job Training	10,870	10,204	-666	-6.13%	566	797	-333	1,030
No Formal Educational Credential	Less than 5 Years	Short-Term On-the-Job Training	6	6	0	0.00%	0	0	0	0
No Formal Educational Credential	None	Long-Term On-the-Job Training	4,379	4,301	-78	-1.78%	218	266	-40	444
No Formal Educational Credential	None	Moderate-Term On-the-Job Training	17,366	17,176	-190	-1.09%	586	1,131	-94	1,623
No Formal Educational Credential	None	Short-Term On-the-Job Training	299,891	290,479	-9,412	-3.14%	18,462	22,966	-4,705	36,724

Appendix: Definition of Education/Training Codes

Education Code	Type of Education	Definition
DD	Doctoral or Professional Degree	Requires at least three years of full-time academic study beyond a Bachelor's Degree.
MD	Master's Degree	Requires one or two years of full-time academic study beyond a Bachelor's Degree.
BD	Bachelor's Degree	Requires four to five years of full-time academic study beyond high school.
AD	Associate's Degree	Requires at least two years of full-time academic study beyond high school.
PS	Postsecondary Non-Degree Award	Programs last a few weeks to more than a year; leads to a certificate or other award, but not a degree.
SC	Some College, No Degree	Signifies the completion of a high school diploma or equivalent program and one or more postsecondary courses that did not result in a degree or award.
HS	High School Diploma or Equivalent	Signifies completion of high school or an equivalent program resulting in an award of a high school diploma or an equivalent.
NFE	No Formal Education Credential	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.

Work Experience Code	Amount of Work Experience
5+	5 or More Years
<5	Less than 5 Years
None	None

Job Training Code	Type of Training	Definition
App	Apprenticeship	Combination of on-the-job training and related occupation-specific technical instruction in which workers learn the practical and theoretical aspects of an occupation.
I/R	Internship/Residency	A formal period of training during which individuals work under the supervision of experienced workers in a professional setting. Internships and residencies are required for state licensure in many fields.
LTOJT	Long-Term On-the-Job Training	Requires more than 12 months of on-the-job training or a combination of work experience and classroom instruction.
MTOJY	Moderate-Term On-the-Job Training	Requires 1 to 12 months of a combination of on-the-job experience and informal training.
STOJT	Short-Term On-the-Job Training	Requires a short demonstration of job duties or one month or less of on-the-job experience and informal training.
None	None	No additional training or preparation required.

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