



Arkansas-Statewide

Short-Term Industry and Occupational Projections

2018 – 2020

ARKANSAS SHORT-TERM INDUSTRY AND OCCUPATIONAL PROJECTIONS 2018-2020



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State of Arkansas

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ARKANSAS SHORT-TERM INDUSTRY AND OCCUPATIONAL PROJECTIONS 2018-2020

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Labor Market Information

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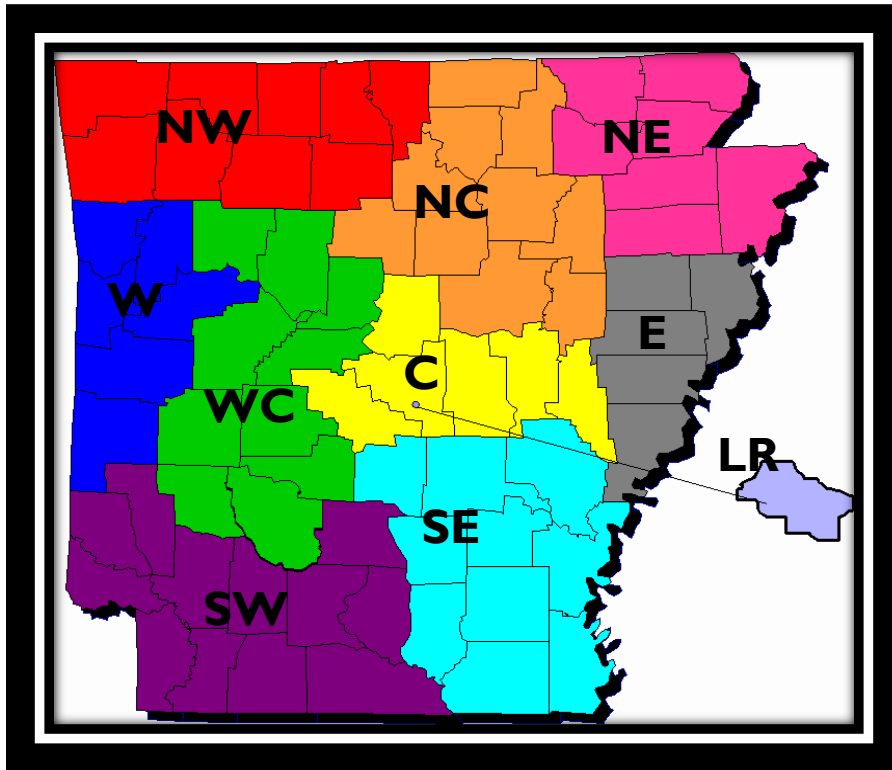
Definitions of Important Terms

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 as a whole, 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.

Table of Contents

Local Workforce Development Areas	5
Introduction	6
State of Arkansas Profile	7
Methodology	8
Explanation of Industry Projections Data	10
Industry Projections by Major Division	11
Industry Outlook	12
Industry Rankings	
Top 20 Growing Industries by Numeric Change	18
Top 20 Fastest Growing Industries by Percent Change	19
Top 20 Declining Industries by Numeric Change	20
Top 20 Fastest Declining Industries by Percent Change	21
Industry Projections	22
Explanation of Occupational Projections Data	31
Occupational Projections by Major Group	32
Occupational Outlook	33
Occupational Rankings	
Top 20 Growing Occupations by Numeric Change	40
Top 20 Fastest Growing Occupations by Percent Change	41
Top 20 Occupations by Annual Exits	42
Top 20 Occupations by Annual Transfers	43
Top 20 Occupations by Total Annual Openings	44
Top 20 Declining Occupations by Numeric Change	45
Top 20 Fastest Declining Occupations by Percent Change	46
Occupational Projections	47
Projections by Educational Level	80
Education Outlook (includes charts)	80
Hot Jobs by Educational Level	82
Projections by Amount of Work Experience	83
Work Experience Outlook (includes charts)	83
Projections by Type of On-the-Job Training	85
Training Outlook (includes charts)	85
Projections by Education Training Path	87
Top 15 Content Skills	91
Top 15 Knowledge Domains	92
Top 15 Generalized Work Activities	93
Appendix: Definition of Education/Training Codes	94

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.

The need for workers to possess certain skills has become increasingly important in the labor market. A part of the publication presents the top skills that are in demand, as well as top knowledge domains and generalized work activities.

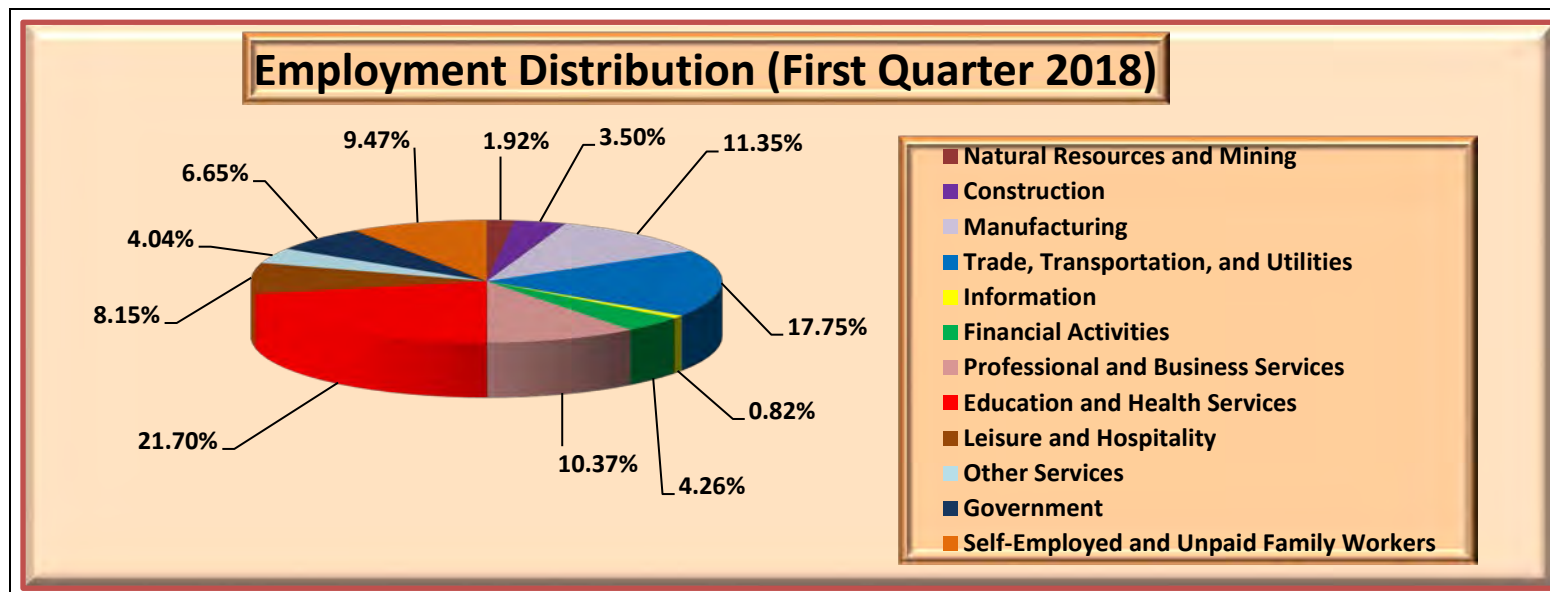
State of Arkansas Profile

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 located 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 why 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 a number of small institutions that focus on specific types of careers. With all these educational opportunities, an array of occupational careers are waiting for students.

Arkansas' population, based on United States Census Bureau data estimates, was 3,013,828 as of July 1, 2018, an increase of 10,831 residents from the July 1, 2017 estimate of 3,002,997. The not-seasonally adjusted average unemployment rate for first quarter 2018 was 4.2 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 2018. 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 2017 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 2020. 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 net 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.

EXPLANATION OF INDUSTRY PROJECTIONS DATA ARKANSAS-STATEWIDE 2018-2020

NAICS Code	NAICS Title	2018 Estimated Employment	2020 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 2018	The projected number of jobs expected to be in an industry in 2020	Total number of jobs an industry is expected to gain or lose over the 2018 to 2020 period	Percent change in the number of jobs in an industry over the 2018 to 2020 period

2018-2020 Arkansas Statewide Industry Projections by Major Division

North American Industry Classification System		Employment		Change	
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent
000000	TOTAL ALL INDUSTRIES	1,406,886	1,445,628	38,742	2.75%
000671	Total Self Employed and Unpaid Family Workers, All Jobs	133,257	136,453	3,196	2.40%
006010	Self Employed Workers, All Jobs	125,560	128,383	2,823	2.25%
007010	Unpaid Family Workers, All Jobs	7,697	8,070	373	4.85%
101000	Goods Producing	235,979	245,045	9,066	3.84%
101100	NATURAL RESOURCES AND MINING	27,062	29,041	1,979	7.31%
110000	Agriculture, Forestry, Fishing and Hunting	23,263	25,105	1,842	7.92%
210000	Mining	3,799	3,936	137	3.61%
101200	CONSTRUCTION	49,196	50,338	1,142	2.32%
101300	MANUFACTURING	159,721	165,666	5,945	3.72%
	<i>Non-Durable Goods Manufacturing</i>	83,892	87,427	3,535	4.21%
	<i>Durable Goods Manufacturing</i>	75,829	78,239	2,410	3.18%
102000	Services Providing	1,037,650	1,064,130	26,480	2.55%
102100	TRADE, TRANSPORTATION, AND UTILITIES	249,652	253,013	3,361	1.35%
420000	Wholesale Trade	46,954	47,760	806	1.72%
440000	Retail Trade	138,216	138,787	571	0.41%
480000	Transportation and Warehousing	56,732	58,903	2,171	3.83%
220000	Utilities	7,750	7,563	-187	-2.41%
102200	INFORMATION	11,555	11,227	-328	-2.84%
102300	FINANCIAL ACTIVITIES	59,949	63,485	3,536	5.90%
520000	Finance and Insurance	46,540	49,566	3,026	6.50%
530000	Real Estate and Rental and Leasing	13,409	13,919	510	3.80%
102400	PROFESSIONAL AND BUSINESS SERVICES	145,947	152,191	6,244	4.28%
540000	Professional, Scientific, and Technical Services	44,091	45,476	1,385	3.14%
550000	Management of Companies and Enterprises	35,292	36,195	903	2.56%
560000	Administrative and Support and Waste Management and Remediation Services	66,564	70,520	3,956	5.94%
102500	EDUCATION AND HEALTH SERVICES	305,341	312,917	7,576	2.48%
610000	Educational Services	116,353	117,772	1,419	1.22%
620000	Health Care and Social Assistance	188,988	195,145	6,157	3.26%
102600	LEISURE AND HOSPITALITY	114,711	118,481	3,770	3.29%
710000	Arts, Entertainment, and Recreation	10,258	10,862	604	5.89%
720000	Accommodation and Food Services	104,453	107,619	3,166	3.03%
102700	OTHER SERVICES (EXCEPT GOVERNMENT)	56,906	58,360	1,454	2.56%
102800	GOVERNMENT	93,589	94,456	867	0.93%

Industry Outlook

Between first quarter 2017 and first quarter 2018, an increase of 11,251 jobs was seen in the Arkansas economy, which translates to a 0.94 percent increase in jobs. The job market is expected to continue this growth with an increase of 38,742 jobs, equivalent to a 2.75 percent rise in employment by 2020. Goods-Producing industries are estimated to see a net gain of 9,066 jobs, while the Services-Providing industries are forecast to increase employment by 26,480. Arkansas' self-employed and unpaid family workers ranks are estimated to experience a net gain of 3,196, an increase of 2.40 percent.

Natural Resources and Mining

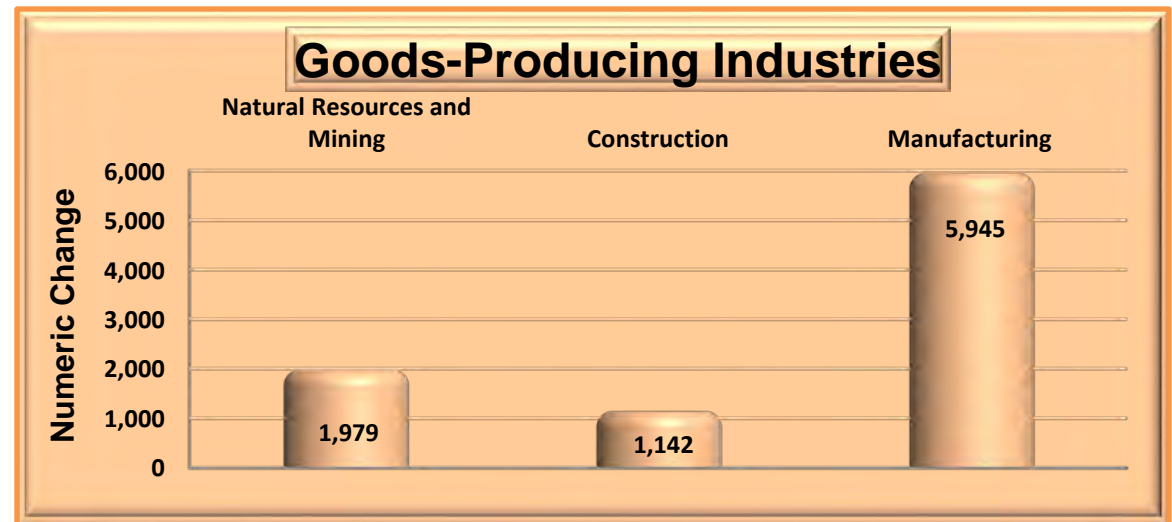
Employment in **Natural Resources and Mining** is expected to gain 1,979 jobs, or 7.31 percent, making it the fastest growing supersector. The **Agriculture, Forestry, Fishing and Hunting** sector is projected to add 1,842 jobs, or raise employment by 7.92 percent, making it the fastest growing sector. The Bureau of Economic Analysis shows a large increase in farming jobs between 2015 and 2017 indicating a potential increase in private farms. *Crop Production* anticipates a gain of 807 jobs, while *Animal Production* could see a gain of 969. Both industries made the Top 20 Growing Industries and Top 20 Fastest Growing Industries lists. The **Mining** sector could see a recovery from recent declines, with a gain of 137. The biggest gain could come in *Mining (except Oil and Gas)* with an increase of 92 jobs, a 5.34 percent rise in jobs. *Support Activities for Mining* is slated to gain 69 new jobs, while *Oil and Gas Extraction* could see a cut of 24 jobs between 2018 and 2020.

Construction

Construction is expected to grow by 1,142 jobs between 2018 and 2020, a 2.32 percent gain. The *Specialty Trade Contractors* subsector is estimated to gain 916 jobs during the projection period, roughly 80 percent of the total growth in **Construction**. Building Equipment Contractors could account for 430 of those jobs. Residential Building Construction is expected to make the top 10 in the Top 20 Fastest Growing Industries list at a rate of 10.7 percent. However, not all of the **Construction** supersector is seeing a favorable outlook. *Heavy and Civil Engineering Construction* is projected to lose 167 jobs overall. Driving the decline is Utility System Construction, with a loss of 113 jobs, while Other Heavy and Civil Engineering Construction could see a decline of 56 jobs, or 9.02 percent, placing the industry among the top 10 of the Top 20 Fastest Declining Industries list.

Non-Durable Goods Manufacturing

Non-Durable Goods Manufacturing is projected to experience a net gain of 3,535 jobs. *Food Manufacturing* is the biggest driver of the growth, with an anticipated gain of 2,354 jobs, almost two-thirds of the growth among non-durable goods industries. Animal Slaughtering and Processing could see strong growth during the projection period, with an anticipated increase of 1,854 jobs, placing it among the Top 5 on the Top 20 Growing



Industries list. Animal Food Manufacturing is predicted to gain 9.78 percent, placing the industry on the Top 20 Fastest Growing Industries list for the state. Other highlights in **Non-Durable Goods Manufacturing** include *Textile Mills*, which is expected to experience significant growth with a 72.81 percent gain with multiple new plants expected to take shape. Not all areas in **Non-Durable Goods Manufacturing** see a favorable outlook. *Printing and Related Support Activities* is estimated to lose 100 jobs between 2018 and 2020, a 2.55 percent decline. This industry made the Top 20 Declining Industries list. Two other industries are also included in the Top 20 Declining Industries list, including Apparel Knitting Mills, which could lose 100 jobs, or 17.18 percent of its workforce, the second fastest decline in the state.



Durable Goods Manufacturing

Durable Goods Manufacturing is forecasted to see a strong outlook between 2018 and 2020, with a net gain of 2,410 jobs. The brightest outlook could come in *Transportation Equipment Manufacturing*, with a gain of 997 jobs, an increase of 7.18 percent. Ship and Boat Building is estimated to increase by 9.63 percent, and places in the Top 20 Fastest Growing Industries list. Other strong growth industries include Iron and Steel Mills and Ferroalloy Manufacturing, which is estimated to be the fastest growing industry among **Durable Goods Manufacturing**, with a 13.13 percent gain, placing among the top five of the Top 20 Fastest Growing Industries list. Three industries in **Durable Goods Manufacturing** are included in the Top 20 Declining Industries list. Steel Product Manufacturing from Purchased Steel also places on the Top 20 Fastest Growing Industries list, at a 9.77 percent change. On the negative side of the job market, *Electrical Equipment, Appliance, and Component Manufacturing* could see a 6.92 percent reduction in employment, or 325 jobs. Electrical Equipment Manufacturing is predicted to be the top declining industry among durable goods manufacturing industries, and fourth statewide with a loss of 248 jobs. Its 7.98 percent loss places among the top ten fastest declining industries in the state. Nonferrous Metal (except Aluminum) Production and Processing is slated to be third in the state in percent decline, losing 13.51 percent of its respective workforce. In all, six industries in **Durable Goods Manufacturing** made the Top 20 Fastest Declining Industries list.

Wholesale Trade

The **Wholesale Trade** sector is projected to have a net gain of 806 jobs, a 1.72 percent increase. *Merchant Wholesalers, Durable Goods* is slated to see the majority of this growth, gaining 720 jobs, an increase of 3.07 percent, making the Top 20 Growing Industries list. *Wholesale Electronic Markets and Agents and Brokers* is predicted to gain an additional 139 jobs, while *Merchant Wholesalers, Nondurable Goods* is estimated to lose 53 jobs, just 0.30 percent of its workforce.

Retail Trade

Retail Trade is projected to see a mixed outlook, but should manage to add a modest 571 jobs, a growth of less than one-half percent.

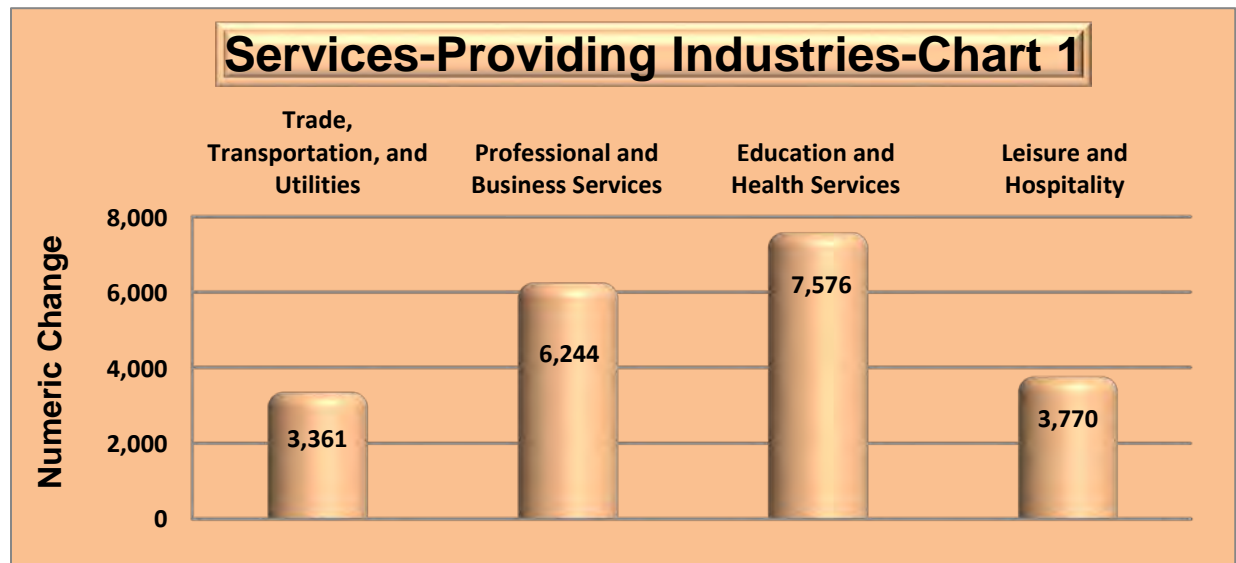
Building Material and Garden Equipment and Supplies Dealers is estimated to lead all subsectors in growth, adding 1,037 jobs to the labor market, an increase of 8.78 percent.

Within this subsector, *Building Material and Supplies Dealers* is projected to add 997 jobs, or a gain of 10.04 percent, making the Top 10 in both the Top 20 Growing Industries list, as well as the Top 20 Fastest Growing Industries list.

Seven subsectors are anticipated to experience job loss, with *Food and Beverage Stores* leading with 459 jobs being cut. *Food and Beverage*

Stores also leads the state for job decline, as many grocery store chains are increasing Scan N Go as well as online grocery shopping and pickup programs. *Direct Selling Establishments* could lose 10.55 percent of its workforce, becoming the fourth fastest declining industry in the state.

General Merchandise Stores is projected to lose 274 jobs, placing third in the state in decline, while *Sporting Goods, Hobby, and Musical Instrument Stores* is slated to lose 229 jobs, or 5.81 percent of its workforce, as the industry has fallen almost 20 percent from its late 2013 peak.



Transportation and Warehousing

The **Transportation and Warehousing** sector is predicted to have a net gain of 2,171 jobs over the projection period. *Truck Transportation* is projected to lead all subsectors in this sector, with 1,136 new jobs. Three industries in this sector make the top 10 of the Top 20 Fastest Growing Industries list. *Nonscheduled Air Transportation* is slated to be the fastest growing industry in the state, growing at a rate of 22.33 percent. A step behind is *Other Transit and Ground Passenger Transportation*, at a 22.21 percent growth. *Support Activities for Rail Transportation* is predicted to gain 12.08 percent, placing sixth overall in percent change. On the negative side, *Pipeline Transportation* could see a drop of 43 jobs, or 10.39 percent of its workforce.

Utilities

The **Utilities** sector could see a drop in employment by March 2020, with a loss of 187 jobs, or 2.41 percent of its workforce. *Electric Power Generation, Transmission and Distribution* is estimated to lose 139 jobs, placing among the top 10 in the Top 20 Declining Industries list. *Natural Gas Distribution* could lose 66 jobs, or 6.30 percent of its workforce, placing among the top 10 of the Top 20 Fastest declining industries. *Water, Sewage and Other Systems* is predicted to have the only favorable outlook in this sector, adding 18 jobs to its workforce.

Information

Information is expected to experience a loss of 328 jobs, or 2.84 percent of its workforce. *Publishing Industries (except Internet)* is slated to take the brunt of the loss with a 211 employees decline, or 6.22 percent of its workforce. Within this subsector is *Newspaper, Periodical, Book, and*

Directory Publishers, which is anticipated to lose 240 jobs, placing fifth in the Top 20 Declining Industries list and among the top 10 of the Top 20 Fastest Declining Industries list at a rate of 7.98 percent. The brightest outlook in this supersector could come in Software Publishers, gaining 29 jobs during the 2018-2020 projection period, increasing by 7.49 percent.

Finance and Insurance

The **Finance and Insurance** sector is predicted to experience a net gain of 3,026 jobs between 2018 and 2020, a 6.50 percent rise in employment. *Insurance Carriers and Related Activities* could see a rise in employment over the 2018-2020 period, with 2,641 new jobs. The subsector grew by 2.63 percent between 2016 and 2017. Insurance Carriers are likely to drive this growth, adding 2,694 jobs, or a 16.54 percent increase, making the industry the top growing industry and third overall in percent growth. *Credit Intermediation and Related Activities* could see a net gain of 325 new jobs.

Real Estate and Rental and Leasing

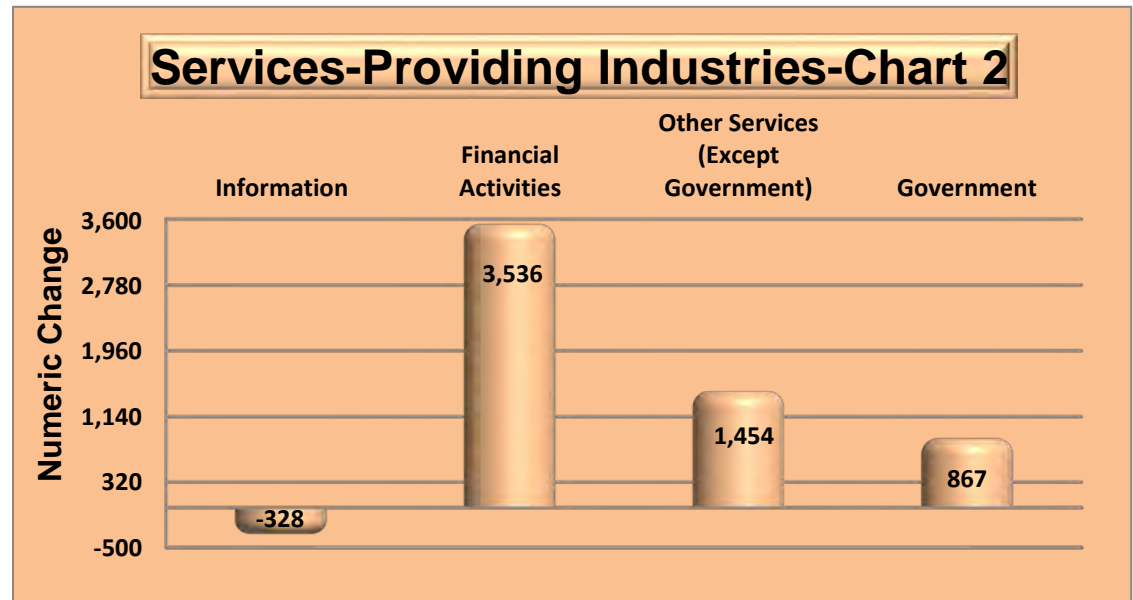
The **Real Estate and Rental and Leasing** sector is expected to see a net gain of 510 jobs during the projection period, equivalent to a 3.80 percent increase. The *Real Estate* subsector is predicted to dominate the growth in the sector, adding 583 new jobs to its workforce, making the Top 20 Growing Industries list. On the flip side of the **Real Estate and Rental and Leasing** sector, *Rental and Leasing Services* is projected to lose 57 jobs during the projection period, while *Lessors of Nonfinancial Intangible Assets (except Copyrighted Works)* could fall by 47.06 percent of its workforce, making the industry the fastest declining industry in the state.

Professional, Scientific, and Technical Services

The **Professional, Scientific, and Technical Services** sector is predicted to add 1,385 new jobs, an increase of 3.14 percent. Management, Scientific, and Technical Consulting Services is estimated to be the top and fastest growing industry in this sector, gaining 574 new jobs, an increase of 8.85 percent. The industry makes both the Top 20 Growing Industries and Top 20 Fastest Growing Industries lists. Specialized Design Services is slated to lose jobs, cutting 15 from its workforce, or 4.46 percent, and making the Top 20 Fastest Declining Industries list.

Management of Companies and Enterprises

Between first quarter 2017 and first quarter 2018, the **Management of Companies and Enterprises** sector experienced a loss of 1,335 new jobs. The industry is still, however, estimated to see growth during the projection period, with 903 new jobs, a 2.56 percent increase. The industry remains on the Top 20 Growing industries list.



Administrative and Support and Waste Management and Remediation Services

The **Administrative and Support and Waste Management and Remediation Services** sector is projected to account for 3,956 new jobs, a 5.94 percent increase during the projection period. The majority of the job growth is likely to come in the *Administrative and Support Services* subsector, which is estimated to add 3,749 new jobs. Two industries within this subsector are forecast to be on the Top 20 Growing Industries list for the state. Employment Services is expected to add 2,311 new jobs, which is third overall in numeric change, while Services to Buildings and Dwellings is anticipated to add 905 to its workforce. *Waste Management and Remediation Services* is predicted to have a gain of 207 jobs between 2018 and 2020.

Educational Services

The **Educational Services** sector is predicted to experience a net gain of 1,419 jobs during the projection period. Colleges, Universities, and Professional Schools is slated to add 879 jobs, placing in the Top 20 Growing Industries list, while Elementary and Secondary Schools could see a gain of 449. Junior Colleges could see a slight dip in employment, while Business Schools and Computer and Management Training could be the fastest growing industry in this sector at a rate of 6.25 percent.

Health Care and Social Assistance

The **Health Care and Social Assistance** sector is projected to add 6,157 jobs, making it the top growing industry sector in the state and responsible for more than 81 percent of the growth in **Education and Health Services**, which is expected to be the top growing supersector with an increase of 7,576 jobs. The *Ambulatory Health Care Services* subsector is estimated to add 2,784 jobs to the Arkansas labor market, while *Hospitals* is predicted to add a total of 781 to its workforce. Offices of Physicians is estimated to add 1,004 new jobs, placing it among the Top 10 on the Top 20 Growing Industries list. Offices of Other Health Professionals could increase by an additional 633 jobs. Specialty (except Psychiatric and Substance Abuse) Hospitals, with a growth of 10.38 percent, places among the top 10 of the Top 20 Fastest Growing Industries list. The *Social Assistance* subsector is projected to have a net gain of 1,823 jobs, while *Nursing and Residential Care Facilities* is projected to add 769. Individual and Family Services is predicted to be the top growing industry in **Health Care and Social Assistance** and fifth overall in the state, with an anticipated growth of 1,596 jobs.

Arts, Entertainment, and Recreation

The **Arts, Entertainment, and Recreation** sector is projected to experience a net gain of 604 jobs. More than 80 percent of the growth is likely to come in *Amusement, Gambling, and Recreation Industries*, which is projected to gain 503 jobs between 2018 and 2020, an increase of 7.48 percent, while *Performing Arts, Spectator Sports, and Related Industries* is predicted to have a net gain of 63 jobs. Other Amusement and Recreation Industries is predicted to add the most jobs increasing by 338 jobs, an increase of 5.18 percent. On the negative side of the job market, Performing Arts Companies is predicted to lose 10.28 percent of its workforce, making the top five of the Top 20 Fastest Declining Industries list.

Accommodation and Food Services

The **Accommodation and Food Services** sector will likely see most of the growth projected to occur in the **Leisure and Hospitality** supersector, with an increase of 3,166 jobs. The *Food Services and Drinking Places* subsector will likely drive the growth with a net gain of 3,079 jobs. Restaurants and Other Eating Places is projected to be the second highest growing industry in the state with a gain of 2,675 jobs. The industry added 1,335 jobs between first quarter 2017 and first quarter 2018. *Accommodation, Including Hotels and Motels* could gain an additional 87 jobs during the projection period.

Other Services (Except Government)

The **Other Services (Except Government)** supersector is expected to experience a net gain of 1,454 jobs between 2018 and 2020. *Religious, Grantmaking, Civic, Professional, and Similar Organizations* is predicted to experience a net gain of 1,355 jobs, while *Repair and Maintenance* is projected to see a net gain of 187 jobs. Religious Organizations could be the top growing industry in **Other Services (Except Government)**, with an anticipated 1,131 new jobs. Private Households is estimated to lose 174 jobs, or 4.24 percent of its workforce.

Government

The **Government** supersector is projected to see a net gain of 867 jobs during the projection period. Local Government, Excluding Education and Hospitals is predicted to have the brightest outlook with 982 new jobs, placing in the top 10 of the Top 20 Growing Industries list. State Government, Excluding Education and Hospitals could add 169 jobs. Federal Government, Excluding Post Office could see a loss of 289 jobs during the projection period, while Postal Service could see minimal change, with a gain of 5 employees.

Top 20 Growing Industries by Numeric Change

NAICS Code	NAICS Title	2018 Estimated Employment	2020 Projected Employment	Numeric Change	Percent Change
524100	Insurance Carriers	16,283	18,977	2,694	16.54%
722500	Restaurants and Other Eating Places	88,034	90,709	2,675	3.04%
561300	Employment Services	28,328	30,639	2,311	8.16%
311600	Animal Slaughtering and Processing	32,908	34,762	1,854	5.63%
624100	Individual and Family Services	25,143	26,739	1,596	6.35%
484000	Truck Transportation	31,610	32,746	1,136	3.59%
813100	Religious Organizations	23,331	24,462	1,131	4.85%
621100	Offices of Physicians	24,919	25,923	1,004	4.03%
444100	Building Material and Supplies Dealers	9,930	10,927	997	10.04%
999300	Local Government, Excluding Education and Hospitals	39,158	40,140	982	2.51%
112000	Animal Production	7,198	8,167	969	13.46%
561700	Services to Buildings and Dwellings	14,478	15,383	905	6.25%
551000	Management of Companies and Enterprises	35,292	36,195	903	2.56%
611300	Colleges, Universities, and Professional Schools	27,614	28,493	879	3.18%
111000	Crop Production	7,869	8,676	807	10.26%
423000	Merchant Wholesalers, Durable Goods	23,419	24,139	720	3.07%
621300	Offices of Other Health Practitioners	9,189	9,822	633	6.89%
531000	Real Estate	9,398	9,981	583	6.20%
541600	Management, Scientific, and Technical Consulting Services	6,485	7,059	574	8.85%
332000	Fabricated Metal Product Manufacturing	15,471	15,929	458	2.96%

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

NAICS Code	NAICS Title	2018 Estimated Employment	2020 Projected Employment	Numeric Change	Percent Change
481200	Nonscheduled Air Transportation	103	126	23	22.33%
485900	Other Transit and Ground Passenger Transportation	959	1,172	213	22.21%
524100	Insurance Carriers	16,283	18,977	2,694	16.54%
112000	Animal Production	7,198	8,167	969	13.46%
331100	Iron and Steel Mills and Ferroalloy Manufacturing	3,168	3,584	416	13.13%
488200	Support Activities for Rail Transportation	737	826	89	12.08%
236100	Residential Building Construction	3,450	3,819	369	10.70%
622300	Specialty (except Psychiatric and Substance Abuse) Hospitals	3,633	4,010	377	10.38%
111000	Crop Production	7,869	8,676	807	10.26%
444100	Building Material and Supplies Dealers	9,930	10,927	997	10.04%
562900	Remediation and Other Waste Management Services	1,060	1,165	105	9.91%
311100	Animal Food Manufacturing	2,005	2,201	196	9.78%
331200	Steel Product Manufacturing from Purchased Steel	2,006	2,202	196	9.77%
336600	Ship and Boat Building	2,149	2,356	207	9.63%
488500	Freight Transportation Arrangement	2,078	2,268	190	9.14%
722300	Special Food Services	4,715	5,138	423	8.97%
541600	Management, Scientific, and Technical Consulting Services	6,485	7,059	574	8.85%
481100	Scheduled Air Transportation	656	712	56	8.54%
488100	Support Activities for Air Transportation	982	1,063	81	8.25%
561300	Employment Services	28,328	30,639	2,311	8.16%

Top 20 Declining Industries by Numeric Change

NAICS Code	NAICS Title	2018 Estimated Employment	2020 Projected Employment	Numeric Change	Percent Change
445000	Food and Beverage Stores	19,463	19,004	-459	-2.36%
999100	Federal Government, Excluding Post Office	14,658	14,369	-289	-1.97%
452000	General Merchandise Stores	38,596	38,322	-274	-0.71%
335300	Electrical Equipment Manufacturing	3,109	2,861	-248	-7.98%
511100	Newspaper, Periodical, Book, and Directory Publishers	3,006	2,766	-240	-7.98%
451100	Sporting Goods, Hobby, and Musical Instrument Stores	3,941	3,712	-229	-5.81%
448100	Clothing Stores	6,250	6,041	-209	-3.34%
814000	Private Households	4,103	3,929	-174	-4.24%
221100	Electric Power Generation, Transmission and Distribution	5,764	5,625	-139	-2.41%
517000	Telecommunications	3,552	3,415	-137	-3.86%
237100	Utility System Construction	4,415	4,302	-113	-2.56%
315100	Apparel Knitting Mills	582	482	-100	-17.18%
323000	Printing and Related Support Activities	3,926	3,826	-100	-2.55%
331500	Foundries	1,625	1,535	-90	-5.54%
311400	Fruit and Vegetable Preserving and Specialty Food Manufacturing	4,072	3,990	-82	-2.01%
453000	Miscellaneous Store Retailers	6,872	6,795	-77	-1.12%
321200	Veneer, Plywood, and Engineered Wood Product Manufacturing	1,789	1,717	-72	-4.02%
454300	Direct Selling Establishments	654	585	-69	-10.55%
221200	Natural Gas Distribution	1,047	981	-66	-6.30%
813900	Business, Professional, Labor, Political, and Similar Organizations	2,710	2,647	-63	-2.32%

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

NAICS Code	NAICS Title	2018 Estimated Employment	2020 Projected Employment	Numeric Change	Percent Change
533000	<i>Lessors of Nonfinancial Intangible Assets (except Copyrighted Works)</i>	34	18	-16	-47.06%
315100	Apparel Knitting Mills	582	482	-100	-17.18%
331400	Nonferrous Metal (except Aluminum) Production and Processing	348	301	-47	-13.51%
454300	Direct Selling Establishments	654	585	-69	-10.55%
711100	Performing Arts Companies	360	323	-37	-10.28%
237900	Other Heavy and Civil Engineering Construction	621	565	-56	-9.02%
511100	Newspaper, Periodical, Book, and Directory Publishers	3,006	2,766	-240	-7.98%
335300	Electrical Equipment Manufacturing	3,109	2,861	-248	-7.98%
221200	Natural Gas Distribution	1,047	981	-66	-6.30%
561500	Travel Arrangement and Reservation Services	353	332	-21	-5.95%
451100	Sporting Goods, Hobby, and Musical Instrument Stores	3,941	3,712	-229	-5.81%
331500	Foundries	1,625	1,535	-90	-5.54%
485500	Charter Bus Industry	92	87	-5	-5.43%
335900	Other Electrical Equipment and Component Manufacturing	1,216	1,154	-62	-5.10%
334500	Navigational, Measuring, Electromedical, and Control Instruments Manufacturing	405	385	-20	-4.94%
454200	Vending Machine Operators	477	454	-23	-4.82%
331300	Alumina and Aluminum Production	842	803	-39	-4.63%
541400	Specialized Design Services	336	321	-15	-4.46%
448200	Shoe Stores	1,168	1,117	-51	-4.37%
814000	<i>Private Households</i>	4,103	3,929	-174	-4.24%

2018-2020 Arkansas Statewide Industry Projections

North American Industry Classification System		Employment		Change	
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent
000000	TOTAL ALL INDUSTRIES	1,406,886	1,445,628	38,742	2.75%
000671	Total Self Employed and Unpaid Family Workers, All Jobs	133,257	136,453	3,196	2.40%
006010	Self Employed Workers, All Jobs	125,560	128,383	2,823	2.25%
007010	Unpaid Family Workers, All Jobs	7,697	8,070	373	4.85%
101000	Goods Producing	235,979	245,045	9,066	3.84%
101100	NATURAL RESOURCES AND MINING	27,062	29,041	1,979	7.31%
110000	Agriculture, Forestry, Fishing and Hunting	23,263	25,105	1,842	7.92%
111000	Crop Production	7,869	8,676	807	10.26%
112000	Animal Production	7,198	8,167	969	13.46%
115000	Support Activities for Agriculture and Forestry	5,843	5,917	74	1.27%
	Other	2,353	2,345	-8	-0.34%
210000	Mining	3,799	3,936	137	3.61%
211000	Oil and Gas Extraction	727	703	-24	-3.30%
212000	Mining (except Oil and Gas)	1,723	1,815	92	5.34%
213000	Support Activities for Mining	1,349	1,418	69	5.11%
101200	CONSTRUCTION	49,196	50,338	1,142	2.32%
236000	Construction of Buildings	10,446	10,839	393	3.76%
236100	Residential Building Construction	3,450	3,819	369	10.70%
236200	Nonresidential Building Construction	6,996	7,020	24	0.34%
237000	Heavy and Civil Engineering Construction	7,922	7,755	-167	-2.11%
237100	Utility System Construction	4,415	4,302	-113	-2.56%
237200	Land Subdivision	76	72	-4	-5.26%
237300	Highway, Street, and Bridge Construction	2,810	2,816	6	0.21%
237900	Other Heavy and Civil Engineering Construction	621	565	-56	-9.02%
238000	Specialty Trade Contractors	30,828	31,744	916	2.97%
238100	Foundation, Structure, and Building Exterior Contractors	5,728	5,888	160	2.79%
238200	Building Equipment Contractors	16,945	17,375	430	2.54%
238300	Building Finishing Contractors	3,772	3,883	111	2.94%
238900	Other Specialty Trade Contractors	4,383	4,598	215	4.91%

2018-2020 Arkansas Statewide Industry Projections

North American Industry Classification System		Employment		Change	
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent
101300	MANUFACTURING	159,721	165,666	5,945	3.72%
	<i>Non-Durable Goods Manufacturing</i>	83,892	87,427	3,535	4.21%
311000	<i>Food Manufacturing</i>	48,472	50,826	2,354	4.86%
311100	Animal Food Manufacturing	2,005	2,201	196	9.78%
311200	Grain and Oilseed Milling	2,706	2,758	52	1.92%
311400	Fruit and Vegetable Preserving and Specialty Food Manufacturing	4,072	3,990	-82	-2.01%
311600	Animal Slaughtering and Processing	32,908	34,762	1,854	5.63%
311800	Bakeries and Tortilla Manufacturing	3,892	4,052	160	4.11%
311900	Other Food Manufacturing	2,289	2,460	171	7.47%
	Other	600	603	3	0.50%
312000	<i>Beverage and Tobacco Product Manufacturing</i>	1,461	1,565	104	7.12%
313000	<i>Textile Mills</i>	114	197	83	72.81%
314000	<i>Textile Product Mills</i>	982	993	11	1.12%
314100	Textile Furnishings Mills	38	38	0	0.00%
314900	Other Textile Product Mills	944	955	11	1.17%
315000	<i>Apparel Manufacturing</i>	827	879	52	6.29%
315100	Apparel Knitting Mills	582	482	-100	-17.18%
	Other	245	397	152	62.04%
316000	<i>Leather and Allied Product Manufacturing</i>	1,016	1,003	-13	-1.28%
316200	Footwear Manufacturing	828	817	-11	-1.33%
316900	Other Leather and Allied Product Manufacturing	188	186	-2	-1.06%
322000	<i>Paper Manufacturing</i>	9,566	9,858	292	3.05%
322100	Pulp, Paper, and Paperboard Mills	3,841	4,135	294	7.65%
322200	Converted Paper Product Manufacturing	5,725	5,723	-2	-0.03%
323000	<i>Printing and Related Support Activities</i>	3,926	3,826	-100	-2.55%
324000	<i>Petroleum and Coal Products Manufacturing</i>	1,205	1,205	0	0.00%
325000	<i>Chemical Manufacturing</i>	5,414	5,682	268	4.95%
326000	<i>Plastics and Rubber Products Manufacturing</i>	10,909	11,393	484	4.44%
326100	Plastics Product Manufacturing	6,669	7,030	361	5.41%
326200	Rubber Product Manufacturing	4,240	4,363	123	2.90%
	<i>Durable Goods Manufacturing</i>	75,829	78,239	2,410	3.18%
321000	<i>Wood Product Manufacturing</i>	9,710	9,967	257	2.65%
321100	Sawmills and Wood Preservation	4,721	4,938	217	4.60%
321200	Veneer, Plywood, and Engineered Wood Product Manufacturing	1,789	1,717	-72	-4.02%
321900	Other Wood Product Manufacturing	3,200	3,312	112	3.50%

2018-2020 Arkansas Statewide Industry Projections

North American Industry Classification System		Employment		Change	
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent
327000	<i>Nonmetallic Mineral Product Manufacturing</i>	3,583	3,633	50	1.40%
331000	<i>Primary Metal Manufacturing</i>	7,989	8,425	436	5.46%
331100	Iron and Steel Mills and Ferroalloy Manufacturing	3,168	3,584	416	13.13%
331200	Steel Product Manufacturing from Purchased Steel	2,006	2,202	196	9.77%
331300	Alumina and Aluminum Production	842	803	-39	-4.63%
331400	Nonferrous Metal (except Aluminum) Production and Processing	348	301	-47	-13.51%
331500	Foundries	1,625	1,535	-90	-5.54%
332000	<i>Fabricated Metal Product Manufacturing</i>	15,471	15,929	458	2.96%
333000	<i>Machinery Manufacturing</i>	11,345	11,743	398	3.51%
334000	<i>Computer and Electronic Product Manufacturing</i>	2,148	2,202	54	2.51%
334400	Semiconductor and Other Electronic Component Manufacturing	1,533	1,616	83	5.41%
334500	Navigational, Measuring, Electromedical, and Control Instruments Manufacturing	405	385	-20	-4.94%
	Other	210	201	-9	-4.29%
335000	<i>Electrical Equipment, Appliance, and Component Manufacturing</i>	4,697	4,372	-325	-6.92%
335100	Electric Lighting Equipment Manufacturing	334	322	-12	-3.59%
335200	Household Appliance Manufacturing	38	35	-3	-7.89%
335300	Electrical Equipment Manufacturing	3,109	2,861	-248	-7.98%
335900	Other Electrical Equipment and Component Manufacturing	1,216	1,154	-62	-5.10%
336000	<i>Transportation Equipment Manufacturing</i>	13,893	14,890	997	7.18%
336200	Motor Vehicle Body and Trailer Manufacturing	2,122	2,237	115	5.42%
336300	Motor Vehicle Parts Manufacturing	5,368	5,640	272	5.07%
336400	Aerospace Product and Parts Manufacturing	2,990	3,158	168	5.62%
336600	Ship and Boat Building	2,149	2,356	207	9.63%
	Other	1,264	1,499	235	18.59%
337000	<i>Furniture and Related Product Manufacturing</i>	3,662	3,716	54	1.47%
339000	<i>Miscellaneous Manufacturing</i>	3,331	3,362	31	0.93%
339100	Medical Equipment and Supplies Manufacturing	1,622	1,695	73	4.50%
339900	Other Miscellaneous Manufacturing	1,709	1,667	-42	-2.46%
102000	Services Providing	1,037,650	1,064,130	26,480	2.55%
102100	TRADE, TRANSPORTATION, AND UTILITIES	249,652	253,013	3,361	1.35%
420000	Wholesale Trade	46,954	47,760	806	1.72%
423000	<i>Merchant Wholesalers, Durable Goods</i>	23,419	24,139	720	3.07%
424000	<i>Merchant Wholesalers, Nondurable Goods</i>	17,896	17,843	-53	-0.30%
425000	<i>Wholesale Electronic Markets and Agents and Brokers</i>	5,639	5,778	139	2.46%

2018-2020 Arkansas Statewide Industry Projections

North American Industry Classification System		Employment		Change	
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent
440000	<i>Retail Trade</i>	138,216	138,787	571	0.41%
441000	<i>Motor Vehicle and Parts Dealers</i>	19,138	19,654	516	2.70%
441100	Automobile Dealers	11,886	12,307	421	3.54%
441200	Other Motor Vehicle Dealers	1,683	1,775	92	5.47%
441300	Automotive Parts, Accessories, and Tire Stores	5,569	5,572	3	0.05%
442000	<i>Furniture and Home Furnishings Stores</i>	3,682	3,755	73	1.98%
442100	Furniture Stores	2,029	2,023	-6	-0.30%
442200	Home Furnishings Stores	1,653	1,732	79	4.78%
443000	<i>Electronics and Appliance Stores</i>	3,563	3,573	10	0.28%
444000	<i>Building Material and Garden Equipment and Supplies Dealers</i>	11,811	12,848	1,037	8.78%
444100	Building Material and Supplies Dealers	9,930	10,927	997	10.04%
444200	Lawn and Garden Equipment and Supplies Stores	1,881	1,921	40	2.13%
445000	<i>Food and Beverage Stores</i>	19,463	19,004	-459	-2.36%
446000	<i>Health and Personal Care Stores</i>	8,744	9,110	366	4.19%
447000	<i>Gasoline Stations</i>	11,974	11,935	-39	-0.33%
448000	<i>Clothing and Clothing Accessories Stores</i>	8,130	7,846	-284	-3.49%
448100	Clothing Stores	6,250	6,041	-209	-3.34%
448200	Shoe Stores	1,168	1,117	-51	-4.37%
448300	Jewelry, Luggage, and Leather Goods Stores	712	688	-24	-3.37%
451000	<i>Sporting Goods, Hobby, Book, and Music Stores</i>	4,439	4,214	-225	-5.07%
451100	Sporting Goods, Hobby, and Musical Instrument Stores	3,941	3,712	-229	-5.81%
451200	Book, Periodical, and Music Stores	498	502	4	0.80%
452000	<i>General Merchandise Stores</i>	38,596	38,322	-274	-0.71%
453000	<i>Miscellaneous Store Retailers</i>	6,872	6,795	-77	-1.12%
454000	<i>Nonstore Retailers</i>	1,804	1,731	-73	-4.05%
454100	Electronic Shopping and Mail Order Houses	673	692	19	2.82%
454200	Vending Machine Operators	477	454	-23	-4.82%
454300	Direct Selling Establishments	654	585	-69	-10.55%
480000	<i>Transportation and Warehousing</i>	56,732	58,903	2,171	3.83%
481000	<i>Air Transportation</i>	759	838	79	10.41%
481100	Scheduled Air Transportation	656	712	56	8.54%
481200	Nonscheduled Air Transportation	103	126	23	22.33%
483000	<i>Water Transportation</i>	22	23	1	4.55%
484000	<i>Truck Transportation</i>	31,610	32,746	1,136	3.59%
485000	<i>Transit and Ground Passenger Transportation</i>	2,052	2,297	245	11.94%
485300	Taxi and Limousine Service	381	385	4	1.05%

2018-2020 Arkansas Statewide Industry Projections

North American Industry Classification System		Employment		Change	
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent
485400	School and Employee Bus Transportation	390	379	-11	-2.82%
485500	Charter Bus Industry	92	87	-5	-5.43%
485900	Other Transit and Ground Passenger Transportation	959	1,172	213	22.21%
	Other	230	274	44	19.13%
<i>486000</i>	<i>Pipeline Transportation</i>	<i>414</i>	<i>371</i>	<i>-43</i>	<i>-10.39%</i>
<i>487000</i>	<i>Scenic and Sightseeing Transportation</i>	<i>18</i>	<i>14</i>	<i>-4</i>	<i>-22.22%</i>
<i>488000</i>	<i>Support Activities for Transportation</i>	<i>5,075</i>	<i>5,499</i>	<i>424</i>	<i>8.35%</i>
488100	Support Activities for Air Transportation	982	1,063	81	8.25%
488200	Support Activities for Rail Transportation	737	826	89	12.08%
488300	Support Activities for Water Transportation	438	448	10	2.28%
488400	Support Activities for Road Transportation	744	795	51	6.85%
488500	Freight Transportation Arrangement	2,078	2,268	190	9.14%
488900	Other Support Activities for Transportation	96	99	3	3.13%
<i>493000</i>	<i>Warehousing and Storage</i>	<i>8,544</i>	<i>8,698</i>	<i>154</i>	<i>1.80%</i>
	<i>Other</i>	<i>8,238</i>	<i>8,417</i>	<i>179</i>	<i>2.17%</i>
220000	Utilities	7,750	7,563	-187	-2.41%
221100	Electric Power Generation, Transmission and Distribution	5,764	5,625	-139	-2.41%
221200	Natural Gas Distribution	1,047	981	-66	-6.30%
221300	Water, Sewage and Other Systems	939	957	18	1.92%
102200	INFORMATION	11,555	11,227	-328	-2.84%
<i>511000</i>	<i>Publishing Industries (except Internet)</i>	<i>3,393</i>	<i>3,182</i>	<i>-211</i>	<i>-6.22%</i>
511100	Newspaper, Periodical, Book, and Directory Publishers	3,006	2,766	-240	-7.98%
511200	Software Publishers	387	416	29	7.49%
<i>512000</i>	<i>Motion Picture and Sound Recording Industries</i>	<i>1,321</i>	<i>1,340</i>	<i>19</i>	<i>1.44%</i>
512100	Motion Picture and Video Industries	1,310	1,328	18	1.37%
512200	Sound Recording Industries	11	12	1	9.09%
<i>515000</i>	<i>Broadcasting (except Internet)</i>	<i>1,586</i>	<i>1,564</i>	<i>-22</i>	<i>-1.39%</i>
<i>517000</i>	<i>Telecommunications</i>	<i>3,552</i>	<i>3,415</i>	<i>-137</i>	<i>-3.86%</i>
<i>518000</i>	<i>Data Processing, Hosting and Related Services</i>	<i>1,365</i>	<i>1,388</i>	<i>23</i>	<i>1.68%</i>
<i>519000</i>	<i>Other Information Services</i>	<i>338</i>	<i>338</i>	<i>0</i>	<i>0.00%</i>
102300	FINANCIAL ACTIVITIES	59,949	63,485	3,536	5.90%

2018-2020 Arkansas Statewide Industry Projections

North American Industry Classification System		Employment		Change	
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent
520000	<i>Finance and Insurance</i>	46,540	49,566	3,026	6.50%
522000	<i>Credit Intermediation and Related Activities</i>	19,133	19,458	325	1.70%
523000	<i>Securities, Commodity Contracts, and Other Financial Investments and Related Activities</i>	3,089	3,156	67	2.17%
524000	<i>Insurance Carriers and Related Activities</i>	24,248	26,889	2,641	10.89%
524100	Insurance Carriers	16,283	18,977	2,694	16.54%
524200	Agencies, Brokerages, and Other Insurance Related Activities	7,965	7,912	-53	-0.67%
	<i>Other</i>	70	63	-7	-10.00%
530000	<i>Real Estate and Rental and Leasing</i>	13,409	13,919	510	3.80%
531000	<i>Real Estate</i>	9,398	9,981	583	6.20%
532000	<i>Rental and Leasing Services</i>	3,977	3,920	-57	-1.43%
533000	<i>Lessors of Nonfinancial Intangible Assets (except Copyrighted Works)</i>	34	18	-16	-47.06%
102400	PROFESSIONAL AND BUSINESS SERVICES	145,947	152,191	6,244	4.28%
540000	<i>Professional, Scientific, and Technical Services</i>	44,091	45,476	1,385	3.14%
541100	Legal Services	5,929	5,944	15	0.25%
541200	Accounting, Tax Preparation, Bookkeeping, and Payroll Services	6,853	6,984	131	1.91%
541300	Architectural, Engineering, and Related Services	6,319	6,396	77	1.22%
541400	Specialized Design Services	336	321	-15	-4.46%
541500	Computer Systems Design and Related Services	9,504	9,608	104	1.09%
541600	Management, Scientific, and Technical Consulting Services	6,485	7,059	574	8.85%
541700	Scientific Research and Development Services	764	793	29	3.80%
541800	Advertising, Public Relations, and Related Services	3,908	4,180	272	6.96%
541900	Other Professional, Scientific, and Technical Services	3,993	4,191	198	4.96%
550000	<i>Management of Companies and Enterprises</i>	35,292	36,195	903	2.56%
560000	<i>Administrative and Support and Waste Management and Remediation Services</i>	66,564	70,520	3,956	5.94%
561000	<i>Administrative and Support Services</i>	63,294	67,043	3,749	5.92%
561100	Office Administrative Services	4,031	4,183	152	3.77%
561200	Facilities Support Services	1,330	1,277	-53	-3.98%
561300	Employment Services	28,328	30,639	2,311	8.16%
561400	Business Support Services	8,507	8,773	266	3.13%
561500	Travel Arrangement and Reservation Services	353	332	-21	-5.95%
561600	Investigation and Security Services	4,993	5,176	183	3.67%
561700	Services to Buildings and Dwellings	14,478	15,383	905	6.25%

2018-2020 Arkansas Statewide Industry Projections

North American Industry Classification System		Employment		Change	
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent
561900	Other Support Services	1,274	1,280	6	0.47%
<i>562000</i>	<i>Waste Management and Remediation Service</i>	<i>3,270</i>	<i>3,477</i>	<i>207</i>	<i>6.33%</i>
562100	Waste Collection	1,274	1,335	61	4.79%
562200	Waste Treatment and Disposal	936	977	41	4.38%
562900	Remediation and Other Waste Management Services	1,060	1,165	105	9.91%
102500	EDUCATION AND HEALTH SERVICES	305,341	312,917	7,576	2.48%
610000	Educational Services	116,353	117,772	1,419	1.22%
611100	Elementary and Secondary Schools	78,163	78,612	449	0.57%
611200	Junior Colleges	6,926	6,915	-11	-0.16%
611300	Colleges, Universities, and Professional Schools	27,614	28,493	879	3.18%
611400	Business Schools and Computer and Management Training	160	170	10	6.25%
611500	Technical and Trade Schools	1,134	1,156	22	1.94%
611600	Other Schools and Instruction	1,804	1,855	51	2.83%
611700	Educational Support Services	552	571	19	3.44%
620000	Health Care and Social Assistance	188,988	195,145	6,157	3.26%
<i>621000</i>	<i>Ambulatory Health Care Services</i>	<i>57,436</i>	<i>60,220</i>	<i>2,784</i>	<i>4.85%</i>
621100	Offices of Physicians	24,919	25,923	1,004	4.03%
621200	Offices of Dentists	7,284	7,552	268	3.68%
621300	Offices of Other Health Practitioners	9,189	9,822	633	6.89%
621400	Outpatient Care Centers	5,231	5,554	323	6.17%
621500	Medical and Diagnostic Laboratories	1,311	1,388	77	5.87%
621600	Home Health Care Services	6,778	7,146	368	5.43%
621900	Other Ambulatory Health Care Services	2,724	2,835	111	4.07%
<i>622000</i>	<i>Hospitals</i>	<i>59,468</i>	<i>60,249</i>	<i>781</i>	<i>1.31%</i>
622100	General Medical and Surgical Hospitals	52,340	52,676	336	0.64%
622200	Psychiatric and Substance Abuse Hospitals	3,495	3,563	68	1.95%
622300	Specialty (except Psychiatric and Substance Abuse) Hospitals	3,633	4,010	377	10.38%
<i>623000</i>	<i>Nursing and Residential Care Facilities</i>	<i>32,161</i>	<i>32,930</i>	<i>769</i>	<i>2.39%</i>
623100	Nursing Care Facilities (Skilled Nursing Facilities)	22,716	23,114	398	1.75%
623200	Residential Intellectual & Developmental Disability, Mental Health, & Substance Abuse Facilities	4,452	4,536	84	1.89%
623300	Continuing Care Retirement Communities and Assisted Living Facilities for the Elderly	4,248	4,517	269	6.33%
623900	Other Residential Care Facilities	745	763	18	2.42%

2018-2020 Arkansas Statewide Industry Projections

North American Industry Classification System		Employment		Change	
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent
624000	<i>Social Assistance</i>	39,923	41,746	1,823	4.57%
624100	Individual and Family Services	25,143	26,739	1,596	6.35%
624200	Community Food and Housing, and Emergency and Other Relief Services	1,338	1,396	58	4.33%
624300	Vocational Rehabilitation Services	3,215	3,311	96	2.99%
624400	Child Day Care Services	10,227	10,300	73	0.71%
102600	LEISURE AND HOSPITALITY	114,711	118,481	3,770	3.29%
710000	Arts, Entertainment, and Recreation	10,258	10,862	604	5.89%
711000	<i>Performing Arts, Spectator Sports, and Related Industries</i>	2,874	2,937	63	2.19%
711100	Performing Arts Companies	360	323	-37	-10.28%
711200	Spectator Sports	1,704	1,752	48	2.82%
711300	Promoters of Performing Arts, Sports, and Similar Events	693	745	52	7.50%
711400	Agents and Managers for Artists, Athletes, Entertainers, and Other Public Figures	55	58	3	5.45%
711500	Independent Artists, Writers, and Performers	62	59	-3	-4.84%
712000	<i>Museums, Historical Sites, and Similar Institutions</i>	662	700	38	5.74%
713000	<i>Amusement, Gambling, and Recreation Industries</i>	6,722	7,225	503	7.48%
713900	Other Amusement and Recreation Industries	6,527	6,865	338	5.18%
	Other	195	360	165	84.62%
720000	Accommodation and Food Services	104,453	107,619	3,166	3.03%
721000	<i>Accommodation, including Hotels and Motels</i>	10,698	10,785	87	0.81%
721100	Traveler Accommodation	10,218	10,310	92	0.90%
721200	RV (Recreational Vehicle) Parks and Recreational Camps	378	376	-2	-0.53%
721300	Rooming and Boarding Houses	102	99	-3	-2.94%
722000	<i>Food Services and Drinking Places</i>	93,755	96,834	3,079	3.28%
722300	Special Food Services	4,715	5,138	423	8.97%
722400	Drinking Places (Alcoholic Beverages)	1,006	987	-19	-1.89%
722500	Restaurants and Other Eating Places	88,034	90,709	2,675	3.04%
102700	OTHER SERVICES (EXCEPT GOVERNMENT)	56,906	58,360	1,454	2.56%
811000	<i>Repair and Maintenance</i>	10,495	10,682	187	1.78%
811100	Automotive Repair and Maintenance	6,528	6,547	19	0.29%
811200	Electronic and Precision Equipment Repair and Maintenance	955	1,017	62	6.49%
811300	Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance	2,467	2,581	114	4.62%

2018-2020 Arkansas Statewide Industry Projections

North American Industry Classification System		Employment		Change	
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent
811400	Personal and Household Goods Repair and Maintenance	545	537	-8	-1.47%
<i>812000</i>	<i>Personal and Laundry Services</i>	<i>7,614</i>	<i>7,700</i>	<i>86</i>	<i>1.13%</i>
812100	Personal Care Services	2,800	2,856	56	2.00%
812200	Death Care Services	1,557	1,581	24	1.54%
812300	Drycleaning and Laundry Services	2,286	2,242	-44	-1.92%
812900	Other Personal Services	971	1,021	50	5.15%
<i>813000</i>	<i>Religious, Grantmaking, Civic, Professional, and Similar Organizations</i>	<i>34,694</i>	<i>36,049</i>	<i>1,355</i>	<i>3.91%</i>
813100	Religious Organizations	23,331	24,462	1,131	4.85%
813200	Grantmaking and Giving Services	2,859	3,029	170	5.95%
813300	Social Advocacy Organizations	4,587	4,646	59	1.29%
813400	Civic and Social Organizations	1,207	1,265	58	4.81%
813900	Business, Professional, Labor, Political, and Similar Organizations	2,710	2,647	-63	-2.32%
<i>814000</i>	<i>Private Households</i>	<i>4,103</i>	<i>3,929</i>	<i>-174</i>	<i>-4.24%</i>
102800	GOVERNMENT	93,589	94,456	867	0.93%
<i>910000</i>	<i>Total Federal Government Employment</i>	<i>20,200</i>	<i>19,916</i>	<i>-284</i>	<i>-1.41%</i>
491100	Postal Service	5,542	5,547	5	0.09%
999100	Federal Government, Excluding Post Office	14,658	14,369	-289	-1.97%
999200	State Government, Excluding Education and Hospitals	34,231	34,400	169	0.49%
999300	Local Government, Excluding Education and Hospitals	39,158	40,140	982	2.51%

EXPLANATION OF OCCUPATIONAL PROJECTIONS DATA ARKANSAS-STATEWIDE 2018-2020

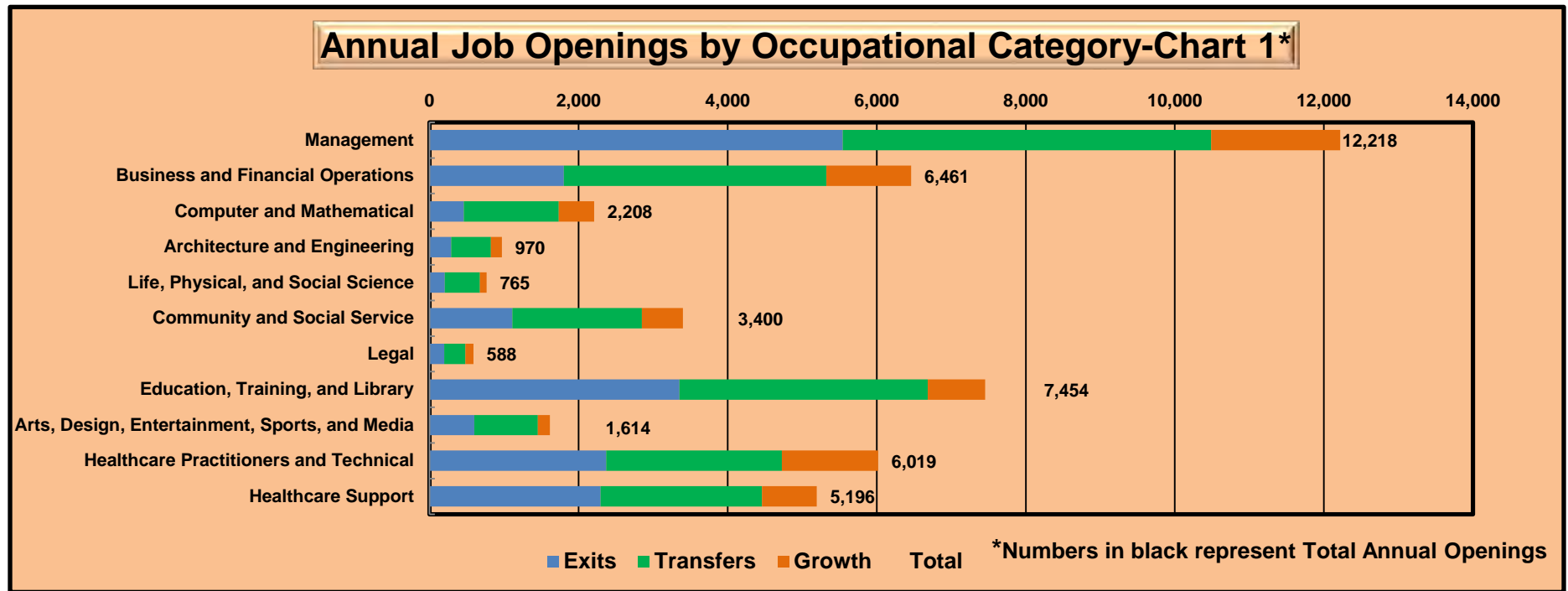
Standard Occupational Classification (SOC)		Employment		Change		Annual Openings				Education/ Training Codes
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	
The occupational code based on the Standard Occupational Classification (SOC) Coding and Title Structure	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 2018	The projected number of jobs expected to be in an occupation in 2020	Total number of jobs an occupation is expected to gain or lose over the 2018 to 2020 period	Percent change in the number of jobs in an occupation over the 2018 to 2020 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 94 for definitions.

2018-2020 Arkansas Statewide Occupational Projections by Major Group

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings	
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total
00-0000	Total, All Occupations	1,406,886	1,445,628	38,742	2.75%	66,790	86,800	19,371	172,961
11-0000	Management Occupations	137,422	140,887	3,465	2.52%	5,544	4,942	1,732	12,218
13-0000	Business and Financial Operations Occupations	59,433	61,703	2,270	3.82%	1,802	3,524	1,135	6,461
15-0000	Computer and Mathematical Occupations	26,168	27,115	947	3.62%	460	1,274	474	2,208
17-0000	Architecture and Engineering Occupations	11,369	11,666	297	2.61%	292	530	148	970
19-0000	Life, Physical, and Social Science Occupations	7,259	7,441	182	2.51%	204	470	91	765
21-0000	Community and Social Service Occupations	26,034	27,133	1,099	4.22%	1,112	1,738	550	3,400
23-0000	Legal Occupations	7,605	7,819	214	2.81%	198	283	107	588
25-0000	Education, Training, and Library Occupations	81,097	82,632	1,535	1.89%	3,354	3,332	768	7,454
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	14,957	15,278	321	2.15%	599	855	160	1,614
29-0000	Healthcare Practitioners and Technical Occupations	85,874	88,457	2,583	3.01%	2,370	2,357	1,292	6,019
31-0000	Healthcare Support Occupations	39,155	40,624	1,469	3.75%	2,296	2,166	734	5,196
33-0000	Protective Service Occupations	27,302	27,810	508	1.86%	1,178	1,400	254	2,832
35-0000	Food Preparation and Serving Related Occupations	104,911	108,190	3,279	3.13%	7,840	9,916	1,640	19,396
37-0000	Building and Grounds Cleaning and Maintenance Occupations	44,898	46,398	1,500	3.34%	2,766	2,896	750	6,412
39-0000	Personal Care and Service Occupations	47,300	49,199	1,899	4.01%	3,674	3,254	950	7,878
41-0000	Sales and Related Occupations	142,104	143,583	1,479	1.04%	8,684	11,074	740	20,498
43-0000	Office and Administrative Support Occupations	182,523	185,905	3,382	1.85%	9,436	10,876	1,691	22,003
45-0000	Farming, Fishing, and Forestry Occupations	20,336	21,506	1,170	5.75%	769	2,265	585	3,619
47-0000	Construction and Extraction Occupations	52,628	54,059	1,431	2.72%	1,882	3,533	716	6,131
49-0000	Installation, Maintenance, and Repair Occupations	60,180	61,878	1,698	2.82%	2,084	3,582	849	6,515
51-0000	Production Occupations	117,174	121,211	4,037	3.45%	4,859	8,630	2,018	15,507
53-0000	Transportation and Material Moving Occupations	111,157	115,134	3,977	3.58%	5,386	7,902	1,988	15,276

Occupational Outlook

The Arkansas labor market is expected to see a growth of 38,742 jobs over the 2018-2020 projection period, an increase of 2.75 percent, with many job opportunities for recent graduates and other job seekers. There is expected to be 172,961 total annual job openings during the projection period, with 66,790 openings available due to employees exiting the workforce. Another 86,800 are estimated to be available due to employees changing jobs, while 19,371 would be due to the growth and decline of an occupation. All major occupational groups are estimated to see net gains in employment.



Management Occupations

The **Management Occupations** major group is projected to gain 3,465 jobs between 2018 and 2020, an increase of 2.52 percent. During the projection period, 12,218 job openings are expected to be available annually, of which 5,544 jobs are estimated to be due to exits from the workforce, and 4,942 due to employees transferring to other occupational groups. Another 1,732 would be for growth and expansion. *Other Management Occupations* is predicted to add 1,969 new jobs and account for nearly 57 percent of the total annual openings among **Management Occupations**. *Farmers, Ranchers, and Other Agricultural Managers* is estimated to be the top growing occupation in the major group and fifth statewide, adding 1,016 jobs to the labor market, but it is also expected to be the top occupation statewide for the most annual exits expected, with 3,593, 71.67 percent of its total annual openings. *Top Executives* is predicted to add 694 to its workforce, while *Operations Specialties Managers* could experience a gain of 622 jobs. General and Operations Managers is predicted to add an additional 653 jobs. No major declines are expected from this major group.

Business and Financial Operations

The **Business and Financial Operations Occupations** major group is estimated to gain 2,270 new jobs by the first quarter of 2020, an increase of 3.82 percent. Around 6,461 job openings are projected to be available in the 2018-2020 projection period. The number of annual exits is expected to be 1,802, while the number of transfers is predicted to be 3,524. Growth and expansion could add 1,135 jobs annually. *Business Operations Specialists* is projected to gain the most jobs, with 1,601 on the horizon, accounting for nearly 70.53 percent of the job growth in this major group, while *Financial Specialists* is predicted to gain an additional 669. Management Analysts is predicted to be the top growing occupation in the major group and makes the Top 20 Growing Occupations list. At 9.70 percent, Insurance Underwriters makes the top 10 of the Top 20 Fastest Growing Occupations list.

Computer and Mathematical

The **Computer and Mathematical Occupations** major group is projected to add 947 new jobs and 2,208 annual job openings. It is projected to have 460 annual exits and 1,274 annual transfers. Growth and expansion is estimated to account for 474 annual openings. The majority of this major group's growth is likely to be in *Computer Occupations*, with a gain of 866 new jobs and 2,095 annual openings. Software Developers, Applications leads the major group with 221 new jobs. The push for more coding education in schools may be a contributing factor in this gain. At 7.23 percent, Information Security Analysts is predicted to be the fastest growing industry in the major group and makes the Top 20 Fastest Growing Occupations list. One downside, is among Computer Programmers, which is predicted to experience a small loss of 11 jobs during the projection period, a decline of less than one-half percent. The *Mathematical Science Occupations* occupational family is expected to add 81 new jobs to the labor market.

Architecture and Engineering

The **Architecture and Engineering Occupations** major group is expected to experience a growth of 297 jobs, a 2.61 percent increase between 2018 and 2020. The major group is expected to have 970 annual job openings, of which 292 will be from those exiting the workforce, 530 from those transferring to other occupations, and 148 from growth and expansion. More than 60 percent of the growth is expected to occur in the *Engineers* occupational family with 180 new jobs, a 2.64 percent increase. Industrial Engineers is predicted to lead occupations in this major group, with 63 new jobs. *Drafters, Engineering Technicians, and Mapping Technicians* is projected to increase by 95 jobs.

Life, Physical, and Social Science

Life, Physical, and Social Science Occupations is projected to have 182 new jobs during the projection period, the smallest growth in the state. Of the 765 total annual openings, 204 would be created from those exiting the workforce, 470 from those transferring jobs, and 91 due to growth and expansion. *Life, Physical, and Social Science Technicians* is estimated to add 74 jobs to its workforce, while *Social Scientists and Related Workers* is slated to add 52. Agricultural and Food Science Technicians is predicted to be the top growing industry, gaining 28 jobs, while Medical Scientists, Except Epidemiologists could be the fastest growing industry at a rate of 6.09 percent.

Community and Social Service

The **Community and Social Service Occupations** major group is expected to gain 1,099 jobs by the first quarter of 2020. Around 3,400 annual job openings are projected to be available with 550 for growth and expansion, 1,112 for exits, and 1,738 for occupational transfers. *Religious Workers* is forecast to gain 617 new jobs with Clergy claiming 482. Clergy is also estimated to be the fastest growing occupation, with a 5.75 percent growth rate. *Counselors, Social Workers, and Other Community and Social Service Specialists* is predicted to add an additional 482 jobs. Social and Human

Service Assistants is predicted to add 135 jobs, while four other occupations in this occupational group are predicted to add at least 45.

Legal

The **Legal Occupations** major group is projected to gain 214 jobs during the projection period. This occupational group is expected to have the fewest annual openings, with 588 anticipated with 107 for growth and expansion, 198 for those exiting the labor market, and 283 for those transferring to other occupational groups. *Lawyers, Judges, and Related Workers* is set for an anticipated growth of 103 jobs, with 78 coming among Lawyers. *Legal Support Workers* is estimated to add 111 new jobs with Paralegals and Legal Assistants adding 59 of those. Title Examiners, Abstractors, and Searchers is slated to be the fastest growing occupation among **Legal Occupations**, growing at a rate of 5.20 percent.

Education, Training, and Library

The **Education, Training, and Library Occupations** major group is forecast to add 1,535 jobs and have 7,454 annual openings each year of the projection period. Of these, 3,354 could come from employees leaving the workforce, and 3,332 coming from those transferring to other occupational groups. About 768 annual openings are due to growth and expansion. *Preschool, Primary, Secondary, and Special Education School Teachers* is set to add 426 jobs to the Arkansas workforce and have 3,180 annual openings. Elementary School Teachers, Except Special Education leads all occupations in the major group with 120 new jobs. Secondary School Teachers, Except Special and Career/Technical Education is forecast to increase by an additional 114 jobs. Teacher Assistants is slated to increase employment by 158. Curators is estimated to increase by 5.66 percent, becoming the fastest growing occupation in **Education, Training, and Library Occupations**.

Arts, Design, Entertainment, Sports, and Media

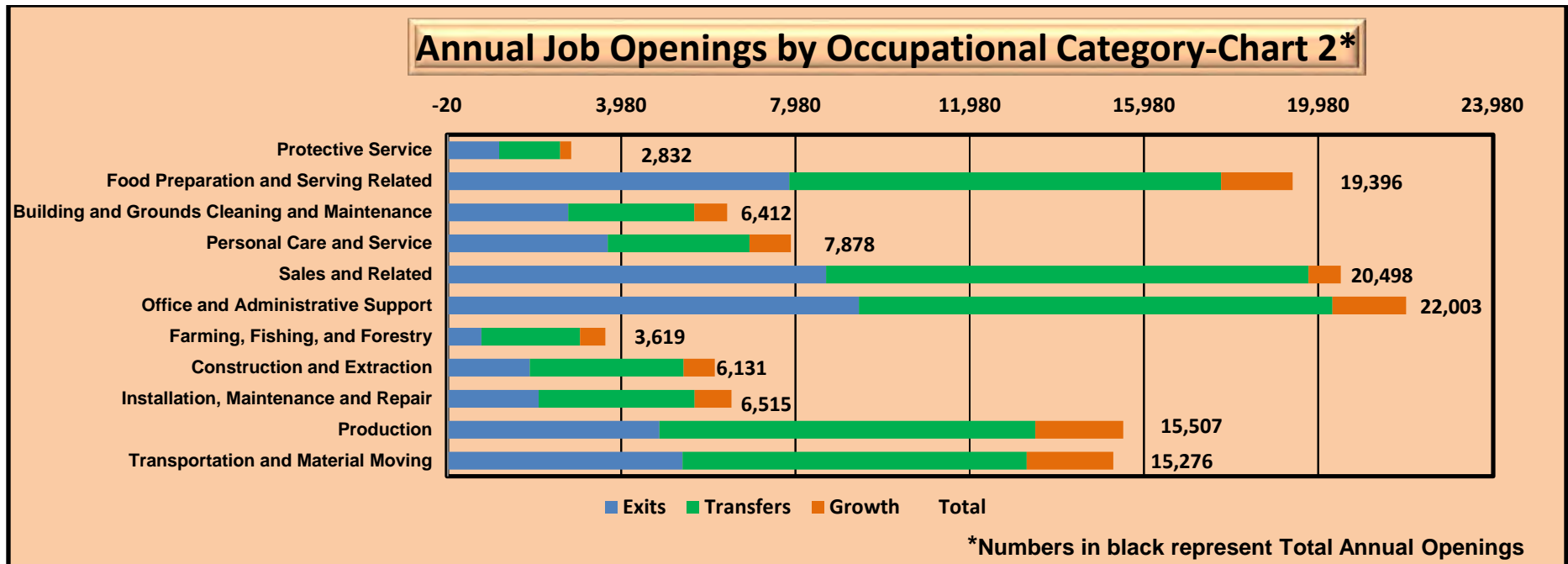
The **Arts, Design, Entertainment, Sports, and Media Occupations** major group is expected to add 321 jobs between 2018 and 2020. Around 1,614 jobs are projected to be available each year during the projection period. Of these, 599 will be due to employees leaving the workforce, 855 for those who transferred to other occupational groups, and 160 for growth and expansion. *Art and Design Workers* is projected to add 114 new jobs to the workforce, while the *Entertainers and Performers, Sports and Related Workers* family could add 112. Coaches and Scouts leads all occupations in the major group with an expected gain of 63 jobs. Technical Writers is estimated to be the fastest growing occupation in the major group, increasing employment by 6.47 percent. On the negative side of the labor market, Reporters and Correspondents could lose 5.26 percent of its workforce, making it the fastest declining occupation in the major group and fourth fastest statewide.

Healthcare Practitioners and Technical

The **Healthcare Practitioners and Technical Occupations** major group is projected to add 2,583 jobs between 2018 and 2020. It is expected to have 6,019 job openings each year, 2,370 of which would be from those leaving the workforce, 2,357 from those transferring to other occupational groups, and 1,292 due to growth and expansion. *Health Diagnosing and Treating Practitioners* is expected to have the most new jobs, with 1,644 on the horizon. Registered Nurses is estimated to add 693 new jobs and have 1,653 annual openings, placing it second in the Top 20 Growing Occupations list. At 7.06 percent, Nurse Practitioners could be the fastest growing in the major group. In all, seven occupations in this occupational family are expecting at least 50 new jobs. *Health Technologists and Technicians* is projected to increase by an additional 902 jobs, with Licensed Practical and Licensed Vocational Nurses adding 235 and Pharmacy Technicians adding 267. One downside is in Respiratory Therapy Technicians, which could lose 11.07 percent of its workforce, or 32 jobs, making it the third fastest declining industry in the state.

Healthcare Support Occupations

Healthcare Support Occupations is expected to increase employment by 3.75 percent, equivalent to 1,469 new jobs and 5,196 annual job openings between 2018 and 2020. Of these annual openings, 2,296 are expected to come from employees leaving the workforce, while 2,166 would come from those transferring to other occupational groups. Another 734 openings are estimated to be available due to growth and expansion. The occupational family *Nursing, Psychiatric, and Home Health Aides* is estimated to gain the most new jobs, with 934 on the horizon. Nursing Assistants is estimated to lead the major group in numeric change with a growth of 502, making the Top 20 Growing Occupations list. Home Health Aides, also on the list, is anticipating 414 new jobs. Physical Therapist Aides is forecast to be the fastest growing occupation in the major group, with a 6.72 percent rise in employment. Medical Transcriptionists could see a 1.35 percent drop in jobs, or 7 jobs, over the 2018 to 2020 time period.



Protective Service

The **Protective Service Occupations** major group is expected to add 508 new jobs to the Arkansas job market. This major group is predicted to have 2,832 annual job openings, with about 1,178 due to those exiting the workforce, 1,400 related to transferring to a new occupational group, and 254 due to growth and expansion. *Other Protective Service Workers* is estimated to lead the major group with 223 new jobs. Security Guards is forecast to add 184 jobs, a gain of 2.73 percent. *Law Enforcement Workers* is forecast to experience a net gain of 126 new jobs with Police and Sheriff's Patrol Officers adding 168. However, Correctional Officers and Jailers could see a drop in employment with 51 job losses.

Food Preparation and Serving Related

Food Preparation and Serving Related Occupations is expected to increase employment over the next two years adding 3,279 jobs to the Arkansas labor market, an increase of 3.13 percent. It is projected to have 19,396 annual job openings, with 7,840 of those created from employees leaving the workforce, 9,916 from transferring to other occupational groups, and 1,640 for growth and expansion. *Food and Beverage Serving Workers* is projected to have 2,126 new jobs and 11,705 annual job openings during the projection period. Combined Food Preparation and Serving Workers, Including Fast Food is estimated to be the top growing occupation in the state with 1,553 new jobs, as well as the top occupation in number of annual openings, with 7,162 annually. The occupation is also ranked third in the state for occupations where employees are most likely to exit the workforce and second for employees most likely to transfer to other occupational groups, with about 6,386 job openings due to exits or transfers. In all, six occupations are estimated to add more than 100 jobs. The *Cooks and Food Preparation Workers* occupational family is slated to add 621 new jobs.

Building and Grounds Cleaning and Maintenance

The **Building and Grounds Cleaning and Maintenance Occupations** major group is projected to add 1,500 jobs by the first quarter of 2020, as well as having 6,412 annual openings. Of these, 2,766 could come from those exiting the workforce, 2,896 from those who transfer to other occupational groups and 750 due to growth and expansion. *Building Cleaning and Pest Control Workers* is predicted to see 915 new jobs, 61 percent of this major group's job growth. Janitors and Cleaners, Except Maids and Housekeeping Cleaners is estimated to gain 690 of those jobs, placing the occupation among the Top 10 of the Top 20 Growing Occupations list. *Grounds Maintenance Workers* is also forecast to see strong growth, with a gain of 418 jobs. Landscaping and Groundskeeping Workers will likely claim the majority of those jobs, with 379 on the horizon, while Pesticide Handlers, Sprayers, and Applicators, Vegetation could be the fastest growing occupation in the major group with a 5.56 percent rise in employment.

Personal Care and Service

The **Personal Care and Service Occupations** major group is projected to increase employment by 1,899, an increase of 4.01 percent. Around 7,878 annual openings are forecast for this major group with 3,674 created from those leaving the workforce, 3,254 from those transferring to other occupational groups, and 950 from growth and expansion. The *Other Personal Care and Service Workers* occupational family could account for 76.04 percent of the new jobs in this major group, with 1,444 expected. Personal Care Aides could add 1,035 new jobs to its workforce, a 6.15 percent gain, placing it fourth in the state for numeric change. Amusement and Recreation Attendants is slated to be the fastest growing occupation in the major group, increasing by 6.56 percent.

Sales and Related

Sales and Related Occupations is expected to experience a gain of 1,479 new jobs by March 2020 and have 20,498 annual openings during the projection period, the second most among the major groups. Of these, 8,684 are estimated to be available due to employees leaving the workforce, and 11,074 due to employees transferring to other occupations. In addition, about 740 openings are expected to be available due to growth and expansion. The *Retail Sales Workers* occupational family is predicted to experience a net gain of 151 jobs and have more than two-thirds of the annual openings of the entire **Sales and Related Occupations** major group. Retail Salespersons is predicted to add the majority of those jobs with a forecasted growth of 328, while Cashiers is estimated to lose 373, becoming the top declining occupation in the state. Combined, these two occupations make up more than 62 percent of the total annual openings for the major group. In all, seven occupations are estimated to increase by more than 100 jobs.

Office and Administrative Support

The **Office and Administrative Support Occupations** major group is predicted to add 3,382 new jobs and have 22,003 annual openings, the most among the major groups. Of the total annual openings, 9,436 would be created due to employees leaving the workforce, 10,876 from those transferring to other occupational groups, and 1,691 for growth and expansion. The *Information and Record Clerks* family is projected to add 1,180 new jobs, more than a third of the overall growth in the major group. Customer Service Representatives is projected to add 615 jobs to the economy, making the Top 10 of the Top 20 Growing Occupations list, while Receptionists and Information Clerks is set to have 293 new jobs. The two occupations are predicted to have more than 1,300 job openings annually each. *Material Recording, Scheduling, Dispatching, and Distributing Workers* could see a growth of 604, while *Other Office and Administrative Support Workers* is slated to add 666. In all, ten occupations are forecast to add more than 100 jobs. At 10.22 percent, Insurance Claims and Policy Processing Clerks is estimated to be the fastest growing occupation in the major group and fourth fastest statewide. Office Clerks, General is expected to lead all occupations in the major group in the number of annual openings with 3,771. Legal Secretaries could see the worst outlook with a loss of 54 jobs.

Farming, Fishing, and Forestry

The **Farming, Fishing, and Forestry Occupations** major group is projected to be the fastest growing occupational major group in the state, with a gain of 5.75 percent. This is due to a large increase in non-covered farming operations in the state, according to the Bureau of Economic Analysis. Job opportunities are expected to be available with a total of 3,619 job openings annually. Of these, 769 could be created from those leaving the workforce and 2,265 from those transferring to other occupational groups. Growth and expansion could add 585 jobs annually. The majority of the job gain is likely to come from *Agricultural Workers*, with a gain of 1,114. Farmworkers and Laborers, Crop, Nursery, and Greenhouse is slated to add 522 new jobs, and Farmworkers, Farm, Ranch, and Aquacultural Animals could add 411 jobs.

Construction and Extraction

The **Construction and Extraction Occupations** major group is expected to experience a net gain of 1,431 jobs by March 2020. The major group is estimated to have 1,882 annual openings created from employees leaving the workforce, 3,533 created from employees transferring to other occupational groups, and 716 due to growth and expansion. The *Construction Trades Workers* occupational family is estimated to experience a net gain of 1,093 jobs, about 76.38 percent of the total net growth in the major group. Three occupations are slated to grow by more than 140 jobs, with Carpenters adding 255. Hazardous Materials Removal Workers is set to be the fastest growing occupation in the major group and seventh overall statewide with a 9.12 percent gain. On the negative side of the economy, Rail-Track Laying and Maintenance Equipment Operators could lose 5.08 percent of its workforce, amounting to a loss of three positions.

Installation, Maintenance, and Repair

The **Installation, Maintenance, and Repair Occupations** major group is projected to gain 1,698 jobs over the 2018 to 2020 projection period. About 6,515 job openings are forecast to be available each year during the projection period, with 2,084 due to employees leaving the workforce and 3,582 due to employees changing jobs. Growth and expansion is estimated to account for 849 annual job openings. The *Other Installation, Maintenance, and Repair Occupations* family is predicted to see the most growth, with an increase of 1,037 jobs. Maintenance and Repair Workers, General is projected to add 485 new jobs to its workforce, while Industrial Machinery Mechanics is predicted to add 339 jobs. Riggers is estimated to be the fastest growing occupation in the major group with a percent change of 8.52 percent, making the top 10 of the Top 20 Fastest Growing Occupations list. On the negative side of the labor market, Electrical Power-Line Installers and Repairers could lose 29 jobs, making the Top 10 of

the Top 20 Declining Occupations list, while Control and Valve Installers and Repairers, Except Mechanical Door is slated to lose 2.57 percent of its workforce, making the Top 20 Fastest Declining Occupations list.

Production Occupations

The **Production Occupations** major group is predicted to experience a net gain of 4,037 jobs during the projection period, the equivalent of a 3.45 percent increase. Of the 15,507 annual job openings, 4,859 job openings are estimated to be created from those leaving the workforce, 8,630 created from employees transferring to other occupational groups, and 2,018 due to growth and expansion. The outlook in this major group is mixed with some gains and some losses. Among growing occupational families, *Other Production Occupations* is estimated to gain 1,466 jobs. Helpers—Production Workers is estimated to lead the major group in numeric growth with an increase of 624 jobs, placing ninth statewide in numeric change. In all, eleven occupations are set to add more than 100 jobs to the state economy. Among occupations with a minimum employment of 50, Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers is slated to be the third fastest growing occupation in the state, with an anticipated 11.31 percent rise in its workforce. In all, five occupations made the Top 20 Fastest Growing Occupations list. On the negative side of the labor market, Coil Winders, Tapers, and Finishers is forecast to lose 40 jobs, or 11.73 percent of its workforce, while Gas Plant Operators could lose 36 jobs, or 14.81 percent of its respective workforce. These two occupations are the top two fastest declining occupations in the state. In all, eight occupations in the **Production Occupations** major group made the Top 20 Fastest Growing Occupation list, and five made the Top 20 Declining Occupations list.

Transportation and Material Moving

The **Transportation and Material Moving Occupations** major group is projected to gain 3,977 employees by the first quarter of 2020. Around 15,276 jobs are expected to be available each year of the projection period, of which 5,386 would be created from those leaving the workforce, 7,902 created from those changing jobs, and 1,988 due to growth and expansion. *Motor Vehicle Operators* is expected to experience a net gain of 1,798 jobs during the projection period. Heavy and Tractor-Trailer Truck Drivers drives the growth in the occupational family, gaining 1,218 new jobs and more than 68 percent of the total annual job openings in the group, placing second in the state for numeric change. *Material Moving Workers* is projected to add 1,913 new jobs, with Laborers and Freight, Stock, and Material Movers, Hand predicted to gain 1,136, placing among the top five growing occupations in the state. Hoist and Winch Operators is slated to be the fastest growing occupation in the state, with a growth of 13.70 percent, while Rail Yard Engineers, Dinkey Operators, and Hostlers, is a step behind at 13.43 percent. On the negative side, Locomotive Engineers could lose 12 jobs, or 3.90 percent of its workforce.

Top 20 Growing Occupations by Numeric Change

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings	
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	34,473	36,026	1,553	4.50%	3,122	3,264	776	7,162
53-3032	Heavy and Tractor-Trailer Truck Drivers	34,897	36,115	1,218	3.49%	1,506	2,230	609	4,345
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	24,440	25,576	1,136	4.65%	1,239	2,138	568	3,945
39-9021	Personal Care Aides	16,820	17,855	1,035	6.15%	1,384	1,042	518	2,944
11-9013	Farmers, Ranchers, and Other Agricultural Managers	60,956	61,972	1,016	1.67%	3,593	912	508	5,013
29-1141	Registered Nurses	25,612	26,305	693	2.71%	743	564	346	1,653
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	19,076	19,766	690	3.62%	1,264	1,222	345	2,831
11-1021	General and Operations Managers	22,768	23,421	653	2.87%	478	1,378	326	2,182
51-9198	Helpers--Production Workers	8,678	9,302	624	7.19%	482	856	312	1,650
43-4051	Customer Service Representatives	17,272	17,887	615	3.56%	898	1,319	308	2,525
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	6,826	7,348	522	7.65%	259	808	261	1,328
31-1014	Nursing Assistants	18,698	19,200	502	2.68%	1,151	958	251	2,360
49-9071	Maintenance and Repair Workers, General	12,418	12,903	485	3.91%	516	704	242	1,462
21-2011	Clergy	8,376	8,858	482	5.75%	395	528	241	1,164
43-9061	Office Clerks, General	30,291	30,760	469	1.55%	1,791	1,746	234	3,771
35-3031	Waiters and Waitresses	17,920	18,380	460	2.57%	1,344	2,058	230	3,632
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	7,820	8,271	451	5.77%	362	613	226	1,201
31-1011	Home Health Aides	7,839	8,253	414	5.28%	489	406	207	1,102
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	6,323	6,734	411	6.50%	239	744	206	1,189
13-1111	Management Analysts	6,949	7,345	396	5.70%	230	370	198	798

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

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings	
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total
53-7041	Hoist and Winch Operators	73	83	10	13.70%	4	6	5	15
53-4013	Rail Yard Engineers, Dinkey Operators, and Hostlers	67	76	9	13.43%	2	4	4	10
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	168	187	19	11.31%	10	12	10	32
43-9041	Insurance Claims and Policy Processing Clerks	1,899	2,093	194	10.22%	86	112	97	295
53-4021	Railroad Brake, Signal, and Switch Operators	102	112	10	9.80%	2	7	5	14
13-2053	Insurance Underwriters	495	543	48	9.70%	14	28	24	66
47-4041	Hazardous Materials Removal Workers	274	299	25	9.12%	12	22	12	46
51-2091	Fiberglass Laminators and Fabricators	526	573	47	8.94%	24	40	24	88
49-9096	Riggers	223	242	19	8.52%	7	16	10	33
45-2091	Agricultural Equipment Operators	1,015	1,101	86	8.47%	38	120	43	201
43-9111	Statistical Assistants	83	90	7	8.43%	4	6	4	14
51-9081	Dental Laboratory Technicians	230	249	19	8.26%	10	16	10	36
51-6031	Sewing Machine Operators	1,752	1,893	141	8.05%	104	88	70	262
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	6,826	7,348	522	7.65%	259	808	261	1,328
53-1011	Aircraft Cargo Handling Supervisors	53	57	4	7.55%	2	4	2	8
53-7021	Crane and Tower Operators	319	343	24	7.52%	11	23	12	46
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	213	229	16	7.51%	11	16	8	35
43-5011	Cargo and Freight Agents	927	996	69	7.44%	30	48	34	112
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	82	88	6	7.32%	2	6	3	11
15-1122	Information Security Analysts	1,896	2,033	137	7.23%	35	96	68	199

Top 20 Occupations by Annual Exits

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings	
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total
11-9013	Farmers, Ranchers, and Other Agricultural Managers	60,956	61,972	1,016	1.67%	3,593	912	508	5,013
41-2011	Cashiers	38,022	37,649	-373	-0.98%	3,552	3,467	-186	6,833
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	34,473	36,026	1,553	4.50%	3,122	3,264	776	7,162
41-2031	Retail Salespersons	39,975	40,303	328	0.82%	2,541	3,186	164	5,891
43-9061	Office Clerks, General	30,291	30,760	469	1.55%	1,791	1,746	234	3,771
53-3032	Heavy and Tractor-Trailer Truck Drivers	34,897	36,115	1,218	3.49%	1,506	2,230	609	4,345
39-9021	Personal Care Aides	16,820	17,855	1,035	6.15%	1,384	1,042	518	2,944
35-3031	Waiters and Waitresses	17,920	18,380	460	2.57%	1,344	2,058	230	3,632
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	19,076	19,766	690	3.62%	1,264	1,222	345	2,831
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	24,440	25,576	1,136	4.65%	1,239	2,138	568	3,945
31-1014	Nursing Assistants	18,698	19,200	502	2.68%	1,151	958	251	2,360
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	20,178	20,247	69	0.34%	1,089	1,059	34	2,182
39-9011	Childcare Workers	12,769	13,016	247	1.93%	1,052	798	124	1,974
43-3031	Bookkeeping, Accounting, and Auditing Clerks	15,921	16,169	248	1.56%	994	771	124	1,889
43-4051	Customer Service Representatives	17,272	17,887	615	3.56%	898	1,319	308	2,525
37-2012	Maids and Housekeeping Cleaners	11,000	11,146	146	1.33%	820	619	73	1,512
43-5081	Stock Clerks and Order Fillers	14,871	15,055	184	1.24%	817	1,066	92	1,975
29-1141	Registered Nurses	25,612	26,305	693	2.71%	743	564	346	1,653
41-1011	First-Line Supervisors of Retail Sales Workers	18,539	18,702	163	0.88%	688	1,253	82	2,023
25-9041	Teacher Assistants	11,670	11,828	158	1.35%	645	536	79	1,260

Top 20 Occupations by Annual Transfers

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings	
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total
41-2011	Cashiers	38,022	37,649	-373	-0.98%	3,552	3,467	-186	6,833
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	34,473	36,026	1,553	4.50%	3,122	3,264	776	7,162
41-2031	Retail Salespersons	39,975	40,303	328	0.82%	2,541	3,186	164	5,891
53-3032	Heavy and Tractor-Trailer Truck Drivers	34,897	36,115	1,218	3.49%	1,506	2,230	609	4,345
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	24,440	25,576	1,136	4.65%	1,239	2,138	568	3,945
35-3031	Waiters and Waitresses	17,920	18,380	460	2.57%	1,344	2,058	230	3,632
43-9061	Office Clerks, General	30,291	30,760	469	1.55%	1,791	1,746	234	3,771
11-1021	General and Operations Managers	22,768	23,421	653	2.87%	478	1,378	326	2,182
43-4051	Customer Service Representatives	17,272	17,887	615	3.56%	898	1,319	308	2,525
41-1011	First-Line Supervisors of Retail Sales Workers	18,539	18,702	163	0.88%	688	1,253	82	2,023
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	19,076	19,766	690	3.62%	1,264	1,222	345	2,831
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	11,013	11,325	312	2.83%	500	1,066	156	1,722
43-5081	Stock Clerks and Order Fillers	14,871	15,055	184	1.24%	817	1,066	92	1,975
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	20,178	20,247	69	0.34%	1,089	1,059	34	2,182
39-9021	Personal Care Aides	16,820	17,855	1,035	6.15%	1,384	1,042	518	2,944
31-1014	Nursing Assistants	18,698	19,200	502	2.68%	1,151	958	251	2,360
11-9013	Farmers, Ranchers, and Other Agricultural Managers	60,956	61,972	1,016	1.67%	3,593	912	508	5,013
43-1011	First-Line Supervisors of Office and Administrative Support Workers	15,098	15,426	328	2.17%	592	881	164	1,637
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	12,580	12,966	386	3.07%	422	856	193	1,471
51-9198	Helpers--Production Workers	8,678	9,302	624	7.19%	482	856	312	1,650

Top 20 Occupations by Total Annual Openings

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings	
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	34,473	36,026	1,553	4.50%	3,122	3,264	776	7,162
41-2011	Cashiers	38,022	37,649	-373	-0.98%	3,552	3,467	-186	6,833
41-2031	Retail Salespersons	39,975	40,303	328	0.82%	2,541	3,186	164	5,891
11-9013	Farmers, Ranchers, and Other Agricultural Managers	60,956	61,972	1,016	1.67%	3,593	912	508	5,013
53-3032	Heavy and Tractor-Trailer Truck Drivers	34,897	36,115	1,218	3.49%	1,506	2,230	609	4,345
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	24,440	25,576	1,136	4.65%	1,239	2,138	568	3,945
43-9061	Office Clerks, General	30,291	30,760	469	1.55%	1,791	1,746	234	3,771
35-3031	Waiters and Waitresses	17,920	18,380	460	2.57%	1,344	2,058	230	3,632
39-9021	Personal Care Aides	16,820	17,855	1,035	6.15%	1,384	1,042	518	2,944
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	19,076	19,766	690	3.62%	1,264	1,222	345	2,831
43-4051	Customer Service Representatives	17,272	17,887	615	3.56%	898	1,319	308	2,525
31-1014	Nursing Assistants	18,698	19,200	502	2.68%	1,151	958	251	2,360
11-1021	General and Operations Managers	22,768	23,421	653	2.87%	478	1,378	326	2,182
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	20,178	20,247	69	0.34%	1,089	1,059	34	2,182
41-1011	First-Line Supervisors of Retail Sales Workers	18,539	18,702	163	0.88%	688	1,253	82	2,023
43-5081	Stock Clerks and Order Fillers	14,871	15,055	184	1.24%	817	1,066	92	1,975
39-9011	Childcare Workers	12,769	13,016	247	1.93%	1,052	798	124	1,974
43-3031	Bookkeeping, Accounting, and Auditing Clerks	15,921	16,169	248	1.56%	994	771	124	1,889
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	11,013	11,325	312	2.83%	500	1,066	156	1,722
29-1141	Registered Nurses	25,612	26,305	693	2.71%	743	564	346	1,653

Top 20 Declining Occupations by Numeric Change

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings	
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total
41-2011	Cashiers	38,022	37,649	-373	-0.98%	3,552	3,467	-186	6,833
43-6012	Legal Secretaries	1,667	1,613	-54	-3.24%	88	86	-27	147
33-3012	Correctional Officers and Jailers	5,603	5,552	-51	-0.91%	197	250	-26	421
51-2021	Coil Winders, Tapers, and Finishers	341	301	-40	-11.73%	16	21	-20	17
51-8092	Gas Plant Operators	243	207	-36	-14.81%	5	17	-18	4
29-2054	Respiratory Therapy Technicians	289	257	-32	-11.07%	9	12	-16	5
49-9051	Electrical Power-Line Installers and Repairers	2,063	2,034	-29	-1.41%	52	108	-14	146
51-5112	Printing Press Operators	2,147	2,121	-26	-1.21%	83	139	-13	209
51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	564	539	-25	-4.43%	28	36	-12	52
43-9021	Data Entry Keyers	1,166	1,145	-21	-1.80%	60	74	-10	124
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	1,711	1,690	-21	-1.23%	56	120	-10	166
49-9052	Telecommunications Line Installers and Repairers	1,234	1,213	-21	-1.70%	30	90	-10	110
27-1023	Floral Designers	741	721	-20	-2.70%	26	41	-10	57
27-3022	Reporters and Correspondents	361	342	-19	-5.26%	11	23	-10	24
51-2022	Electrical and Electronic Equipment Assemblers	834	815	-19	-2.28%	42	54	-10	86
43-9022	Word Processors and Typists	293	278	-15	-5.12%	18	14	-8	24
43-2011	Switchboard Operators, Including Answering Service	680	666	-14	-2.06%	42	45	-7	80
43-6011	Executive Secretaries and Executive Administrative Assistants	4,265	4,253	-12	-0.28%	230	223	-6	447
53-4011	Locomotive Engineers	308	296	-12	-3.90%	8	17	-6	19
15-1131	Computer Programmers	2,300	2,289	-11	-0.48%	40	102	-6	136

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

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings	
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total
51-8092	Gas Plant Operators	243	207	-36	-14.81%	5	17	-18	4
51-2021	Coil Winders, Tapers, and Finishers	341	301	-40	-11.73%	16	21	-20	17
29-2054	Respiratory Therapy Technicians	289	257	-32	-11.07%	9	12	-16	5
27-3022	Reporters and Correspondents	361	342	-19	-5.26%	11	23	-10	24
43-9022	Word Processors and Typists	293	278	-15	-5.12%	18	14	-8	24
51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	564	539	-25	-4.43%	28	36	-12	52
41-3041	Travel Agents	170	163	-7	-4.12%	9	10	-4	15
51-6021	Pressers, Textile, Garment, and Related Materials	269	258	-11	-4.09%	16	18	-6	28
51-5111	Prepress Technicians and Workers	256	246	-10	-3.91%	10	19	-5	24
53-4011	Locomotive Engineers	308	296	-12	-3.90%	8	17	-6	19
51-8012	Power Distributors and Dispatchers	239	230	-9	-3.77%	6	14	-4	16
43-6012	Legal Secretaries	1,667	1,613	-54	-3.24%	88	86	-27	147
43-9011	Computer Operators	288	280	-8	-2.78%	12	18	-4	26
27-1023	Floral Designers	741	721	-20	-2.70%	26	41	-10	57
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	272	265	-7	-2.57%	6	14	-4	16
51-2022	Electrical and Electronic Equipment Assemblers	834	815	-19	-2.28%	42	54	-10	86
43-2011	Switchboard Operators, Including Answering Service	680	666	-14	-2.06%	42	45	-7	80
51-5113	Print Binding and Finishing Workers	251	246	-5	-1.99%	19	14	-2	31
43-9021	Data Entry Keyers	1,166	1,145	-21	-1.80%	60	74	-10	124
53-6051	Transportation Inspectors	286	281	-5	-1.75%	10	17	-2	25

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
00-0000	TOTAL, ALL OCCUPATIONS	1,406,886	1,445,628	38,742	2.75%	66,790	86,800	19,371	172,961			
11-0000	MANAGEMENT OCCUPATIONS	137,422	140,887	3,465	2.52%	5,544	4,942	1,732	12,218			
11-1000	Top Executives	26,726	27,420	694	2.60%	592	1,542	347	2,481			
11-1011	Chief Executives	2,962	2,974	12	0.41%	86	122	6	214	3	1	6
11-1021	General and Operations Managers	22,768	23,421	653	2.87%	478	1,378	326	2,182	3	1	6
11-1031	Legislators	996	1,025	29	2.91%	28	42	14	84	3	2	6
11-2000	Advertising, Marketing, Promotions, Public Relations, and Sales Managers	5,000	5,180	180	3.60%	116	308	90	514			
11-2011	Advertising and Promotions Managers	154	159	5	3.25%	4	12	2	18	3	2	6
11-2021	Marketing Managers	1,596	1,645	49	3.07%	37	98	24	159	3	1	6
11-2022	Sales Managers	2,511	2,601	90	3.58%	58	155	45	258	3	2	6
11-2031	Public Relations and Fundraising Managers	739	775	36	4.87%	16	43	18	77	3	1	6
11-3000	Operations Specialties Managers	14,526	15,148	622	4.28%	351	748	311	1,410			
11-3011	Administrative Services Managers	2,386	2,480	94	3.94%	73	119	47	239	3	2	6
11-3021	Computer and Information Systems Managers	2,461	2,572	111	4.51%	44	137	56	237	3	1	6
11-3031	Financial Managers	4,348	4,575	227	5.22%	102	221	114	437	3	1	6
11-3051	Industrial Production Managers	1,986	2,069	83	4.18%	47	92	42	181	3	1	6
11-3061	Purchasing Managers	546	562	16	2.93%	16	27	8	51	3	1	6
11-3071	Transportation, Storage, and Distribution Managers	1,433	1,477	44	3.07%	33	76	22	131	7	1	6
11-3111	Compensation and Benefits Managers	109	111	2	1.83%	2	5	1	8	3	1	6
11-3121	Human Resources Managers	958	994	36	3.76%	24	52	18	94	3	1	6
11-3131	Training and Development Managers	299	308	9	3.01%	8	18	4	30	3	1	6
11-9000	Other Management Occupations	91,170	93,139	1,969	2.16%	4,486	2,344	984	7,814			
11-9013	Farmers, Ranchers, and Other Agricultural Managers	60,956	61,972	1,016	1.67%	3,593	912	508	5,013	7	1	6
11-9021	Construction Managers	2,984	3,063	79	2.65%	70	134	40	244	3	3	4

*For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
11-9031	Education Administrators, Preschool and Childcare Center/Program	565	573	8	1.42%	16	26	4	46	3	2	6
11-9032	Education Administrators, Elementary and Secondary School	2,415	2,440	25	1.04%	68	110	12	190	2	1	6
11-9033	Education Administrators, Postsecondary	1,650	1,694	44	2.67%	47	76	22	145	2	2	6
11-9039	Education Administrators, All Other	394	401	7	1.78%	11	18	4	33	3	2	6
11-9041	Architectural and Engineering Managers	578	585	7	1.21%	12	28	4	44	3	1	6
11-9051	Food Service Managers	2,319	2,396	77	3.32%	74	174	38	286	7	2	6
11-9061	Funeral Service Managers	395	407	12	3.04%	11	17	6	34	4	2	6
11-9111	Medical and Health Services Managers	4,664	4,841	177	3.80%	129	232	88	449	3	2	6
11-9121	Natural Sciences Managers	282	287	5	1.77%	6	16	2	24	3	1	6
11-9131	Postmasters and Mail Superintendents	188	184	-4	-2.13%	5	8	-2	11	7	2	4
11-9141	Property, Real Estate, and Community Association Managers	3,235	3,400	165	5.10%	138	111	82	331	7	2	6
11-9151	Social and Community Service Managers	1,725	1,792	67	3.88%	58	92	34	184	3	2	6
11-9199	Managers, All Other	8,075	8,347	272	3.37%	222	344	136	702	3	2	6
13-0000	BUSINESS AND FINANCIAL OPERATIONS OCCUPATIONS	59,433	61,703	2,270	3.82%	1,802	3,524	1,135	6,461			
13-1000	<i>Business Operations Specialists</i>	38,995	40,596	1,601	4.11%	1,200	2,402	800	4,402			
13-1020	Buyers and Purchasing Agents	1,786	1,804	18	1.01%	66	121	9	196	3	3	4
13-1021	Buyers and Purchasing Agents, Farm Products	126	126	0	0.00%	6	8	0	14	3	3	4
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	1,025	1,048	23	2.24%	31	58	12	101	3	3	4
13-1031	Claims Adjusters, Examiners, and Investigators	1,926	2,022	96	4.98%	50	110	48	208	7	3	3
13-1032	Insurance Appraisers, Auto Damage	33	33	0	0.00%	1	2	0	3	5	3	4
13-1041	Compliance Officers	2,909	3,023	114	3.92%	83	150	57	290	3	3	4
13-1051	Cost Estimators	1,239	1,277	38	3.07%	40	82	19	141	3	3	4

For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
13-1071	Human Resources Specialists	3,558	3,684	126	3.54%	105	238	63	406	3	3	6
13-1075	Labor Relations Specialists	378	372	-6	-1.59%	11	24	-3	32	3	2	6
13-1081	Logisticians	1,524	1,578	54	3.54%	38	110	27	175	3	3	6
13-1111	Management Analysts	6,949	7,345	396	5.70%	230	370	198	798	3	2	6
13-1121	Meeting, Convention, and Event Planners	764	793	29	3.80%	30	58	14	102	3	3	6
13-1131	Fundraisers	682	716	34	4.99%	22	46	17	85	3	3	6
13-1141	Compensation, Benefits, and Job Analysis Specialists	685	704	19	2.77%	18	38	10	66	3	2	6
13-1151	Training and Development Specialists	3,060	3,175	115	3.76%	96	200	58	354	3	2	6
13-1161	Market Research Analysts and Marketing Specialists	4,690	4,969	279	5.95%	128	332	140	600	3	3	6
13-1199	Business Operations Specialists, All Other	7,201	7,460	259	3.60%	230	423	130	783	3	3	6
13-2000	Financial Specialists	20,438	21,107	669	3.27%	602	1,122	334	2,058			
13-2011	Accountants and Auditors	8,667	8,959	292	3.37%	260	507	146	913	3	3	6
13-2021	Appraisers and Assessors of Real Estate	791	830	39	4.93%	28	24	20	72	3	3	3
13-2031	Budget Analysts	701	709	8	1.14%	19	32	4	55	3	3	6
13-2041	Credit Analysts	386	395	9	2.33%	9	22	4	35	3	3	6
13-2051	Financial Analysts	1,256	1,314	58	4.62%	26	80	29	135	3	3	6
13-2052	Personal Financial Advisors	834	864	30	3.60%	21	42	15	78	3	3	3
13-2053	Insurance Underwriters	495	543	48	9.70%	14	28	24	66	3	3	4
13-2061	Financial Examiners	221	225	4	1.81%	6	10	2	18	3	3	3
13-2072	Loan Officers	4,239	4,347	108	2.55%	104	238	54	396	3	3	4
13-2081	Tax Examiners and Collectors, and Revenue Agents	528	534	6	1.14%	16	20	3	39	3	3	4
13-2082	Tax Preparers	1,191	1,225	34	2.85%	66	60	17	143	7	3	4
15-0000	COMPUTER AND MATHEMATICAL OCCUPATIONS	26,168	27,115	947	3.62%	460	1,274	474	2,208			
15-1100	Computer Occupations	25,047	25,913	866	3.46%	438	1,224	433	2,095			
15-1111	Computer and Information Research Scientists	39	40	1	2.56%	0	2	0	2	2	3	6
15-1121	Computer Systems Analysts	3,877	3,988	111	2.86%	72	176	56	304	3	3	6

*For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
15-1122	Information Security Analysts	1,896	2,033	137	7.23%	35	96	68	199	3	2	6
15-1131	Computer Programmers	2,300	2,289	-11	-0.48%	40	102	-6	136	3	3	6
15-1132	Software Developers, Applications	3,916	4,137	221	5.64%	55	198	110	363	3	3	6
15-1133	Software Developers, Systems Software	1,334	1,371	37	2.77%	18	66	18	102	3	3	6
15-1134	Web Developers	463	482	19	4.10%	9	24	10	43	4	3	6
15-1141	Database Administrators	721	762	41	5.69%	16	31	20	67	3	3	6
15-1142	Network and Computer Systems Administrators	2,863	2,945	82	2.86%	41	136	41	218	3	3	6
15-1143	Computer Network Architects	863	886	23	2.67%	12	43	12	67	3	1	6
15-1151	Computer User Support Specialists	4,062	4,179	117	2.88%	84	212	58	354	6	3	6
15-1152	Computer Network Support Specialists	1,863	1,936	73	3.92%	38	98	36	172	4	3	6
15-1199	Computer Occupations, All Other	850	865	15	1.76%	16	40	8	64	3	3	6
15-2000	Mathematical Science Occupations	1,121	1,202	81	7.23%	23	50	40	113			
15-2031	Operations Research Analysts	633	676	43	6.79%	14	24	22	60	3	3	6
15-2041	Statisticians	397	420	23	5.79%	8	21	12	41	2	3	6
17-0000	ARCHITECTURE AND ENGINEERING OCCUPATIONS	11,369	11,666	297	2.61%	292	530	148	970			
17-1000	Architects, Surveyors, and Cartographers	1,414	1,436	22	1.56%	38	62	11	111			
17-1011	Architects, Except Landscape and Naval	734	742	8	1.09%	18	33	4	55	3	3	2
17-1012	Landscape Architects	110	111	1	0.91%	3	5	0	8	3	3	2
17-1021	Cartographers and Photogrammetrists	92	95	3	3.26%	2	4	2	8	3	3	6
17-1022	Surveyors	478	488	10	2.09%	14	20	5	39	3	3	2
17-2000	Engineers	6,823	7,003	180	2.64%	155	294	90	539			
17-2031	Biomedical Engineers	59	60	1	1.69%	2	2	0	4	3	3	6
17-2041	Chemical Engineers	88	91	3	3.41%	2	4	2	8	3	3	6
17-2051	Civil Engineers	1,535	1,561	26	1.69%	34	76	13	123	3	3	6
17-2061	Computer Hardware Engineers	269	273	4	1.49%	6	12	2	20	3	3	6
17-2071	Electrical Engineers	965	967	2	0.21%	22	38	1	61	3	3	6
17-2072	Electronics Engineers, Except Computer	294	306	12	4.08%	7	12	6	25	3	3	6

For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
17-2081	Environmental Engineers	141	142	1	0.71%	4	6	0	10	3	3	6
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	164	165	1	0.61%	4	6	0	10	3	3	6
17-2112	Industrial Engineers	1,247	1,310	63	5.05%	29	52	32	113	3	3	6
17-2131	Materials Engineers	181	188	7	3.87%	6	7	4	17	3	3	6
17-2141	Mechanical Engineers	760	778	18	2.37%	16	32	9	57	3	3	6
17-2199	Engineers, All Other	700	727	27	3.86%	16	29	14	59	3	3	6
17-3000	<i>Drafters, Engineering Technicians, and Mapping Technicians</i>	3,132	3,227	95	3.03%	98	175	48	321			
17-3011	Architectural and Civil Drafters	485	498	13	2.68%	14	26	6	46	4	3	6
17-3012	Electrical and Electronics Drafters	154	155	1	0.65%	4	8	0	12	4	3	6
17-3013	Mechanical Drafters	326	341	15	4.60%	10	18	8	36	4	3	6
17-3019	Drafters, All Other	37	40	3	8.11%	1	2	2	5	4	3	6
17-3023	Electrical and Electronics Engineering Technicians	622	639	17	2.73%	20	33	8	61	4	3	6
17-3025	Environmental Engineering Technicians	129	132	3	2.33%	4	7	2	13	4	3	6
17-3026	Industrial Engineering Technicians	277	289	12	4.33%	9	15	6	30	4	3	6
17-3027	Mechanical Engineering Technicians	83	83	0	0.00%	2	4	0	6	4	3	6
17-3029	Engineering Technicians, Except Drafters, All Other	460	476	16	3.48%	15	24	8	47	4	3	6
17-3031	Surveying and Mapping Technicians	327	336	9	2.75%	11	24	4	39	7	3	4
19-0000	LIFE, PHYSICAL, AND SOCIAL SCIENCE OCCUPATIONS	7,259	7,441	182	2.51%	204	470	91	765			
19-1000	<i>Life Scientists</i>	1,689	1,720	31	1.84%	38	111	16	165			
19-1012	Food Scientists and Technologists	169	176	7	4.14%	4	12	4	20	3	3	6
19-1013	Soil and Plant Scientists	145	149	4	2.76%	4	10	2	16	3	3	6
19-1022	Microbiologists	147	149	2	1.36%	3	10	1	14	3	3	6
19-1023	Zoologists and Wildlife Biologists	165	166	1	0.61%	4	10	0	14	3	3	6
19-1029	Biological Scientists, All Other	269	266	-3	-1.12%	6	17	-2	21	3	3	6
19-1031	Conservation Scientists	208	207	-1	-0.48%	4	12	0	16	3	3	6
19-1032	Foresters	280	282	2	0.71%	6	17	1	24	3	3	6

*For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
19-1041	Epidemiologists	52	53	1	1.92%	1	4	0	5	2	3	6
19-1042	Medical Scientists, Except Epidemiologists	115	122	7	6.09%	2	8	4	14	1	3	6
19-2000	Physical Scientists	1,045	1,070	25	2.39%	24	69	12	105			
19-2021	Atmospheric and Space Scientists	20	20	0	0.00%	0	1	0	1	3	3	6
19-2031	Chemists	455	464	9	1.98%	12	29	4	45	3	3	6
19-2041	Environmental Scientists and Specialists, Including Health	345	363	18	5.22%	8	24	9	41	3	3	6
19-2042	Geoscientists, Except Hydrologists and Geographers	99	99	0	0.00%	2	7	0	9	3	3	6
19-2043	Hydrologists	24	24	0	0.00%	0	2	0	2	3	3	6
19-2099	Physical Scientists, All Other	40	40	0	0.00%	0	2	0	2	3	3	6
19-3000	Social Scientists and Related Workers	1,454	1,506	52	3.58%	36	70	26	132			
19-3011	Economists	101	103	2	1.98%	2	6	1	9	2	3	6
19-3031	Clinical, Counseling, and School Psychologists	724	743	19	2.62%	18	28	10	56	1	3	2
19-3039	Psychologists, All Other	107	106	-1	-0.93%	2	4	0	6	2	3	2
19-3051	Urban and Regional Planners	69	71	2	2.90%	2	4	1	7	2	3	6
19-3091	Anthropologists and Archeologists	41	41	0	0.00%	1	2	0	3	2	3	6
19-3099	Social Scientists and Related Workers, All Other	167	166	-1	-0.60%	4	10	0	14	3	3	6
19-4000	Life, Physical, and Social Science Technicians	3,071	3,145	74	2.41%	106	220	37	363			
19-4011	Agricultural and Food Science Technicians	941	969	28	2.98%	26	68	14	108	4	3	4
19-4021	Biological Technicians	254	259	5	1.97%	6	18	2	26	3	3	6
19-4031	Chemical Technicians	444	449	5	1.13%	15	26	2	43	4	3	4
19-4061	Social Science Research Assistants	305	315	10	3.28%	12	23	5	40	3	3	6
19-4091	Environmental Science and Protection Technicians, Including Health	170	179	9	5.29%	7	13	4	24	4	3	6
19-4092	Forensic Science Technicians	154	160	6	3.90%	6	12	3	21	3	3	4
19-4093	Forest and Conservation Technicians	275	273	-2	-0.73%	11	20	-1	30	4	3	6
19-4099	Life, Physical, and Social Science Technicians, All Other	417	430	13	3.12%	17	32	6	55	4	3	6

For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
21-0000	COMMUNITY AND SOCIAL SERVICE OCCUPATIONS	26,034	27,133	1,099	4.22%	1,112	1,738	550	3,400			
21-1000	<i>Counselors, Social Workers, and Other Community and Social Service Specialists</i>	15,257	15,739	482	3.16%	599	1,026	241	1,866			
21-1011	Substance Abuse and Behavioral Disorder Counselors	579	600	21	3.63%	22	38	10	70	3	3	6
21-1012	Educational, Guidance, School, and Vocational Counselors	2,296	2,341	45	1.96%	86	152	22	260	2	3	6
21-1014	Mental Health Counselors	900	947	47	5.22%	34	60	24	118	2	3	2
21-1015	Rehabilitation Counselors	473	491	18	3.81%	18	32	9	59	2	3	6
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	467	490	23	4.93%	18	32	12	62	2	3	2
21-1021	Child, Family, and School Social Workers	1,525	1,562	37	2.43%	56	98	18	172	3	3	6
21-1022	Healthcare Social Workers	1,435	1,485	50	3.48%	52	93	25	170	2	3	2
21-1023	Mental Health and Substance Abuse Social Workers	1,080	1,127	47	4.35%	40	70	24	134	2	3	2
21-1029	Social Workers, All Other	611	617	6	0.98%	22	39	3	64	3	3	6
21-1091	Health Educators	237	242	5	2.11%	11	18	2	31	3	3	6
21-1092	Probation Officers and Correctional Treatment Specialists	945	959	14	1.48%	29	50	7	86	3	3	5
21-1093	Social and Human Service Assistants	3,844	3,979	135	3.51%	175	280	68	523	7	3	5
21-1094	Community Health Workers	379	396	17	4.49%	18	28	8	54	7	3	5
21-1099	Community and Social Service Specialists, All Other	374	388	14	3.74%	17	28	7	52	3	3	6
21-2000	<i>Religious Workers</i>	10,777	11,394	617	5.73%	514	712	308	1,534			
21-2011	Clergy	8,376	8,858	482	5.75%	395	528	241	1,164	3	3	4
21-2021	Directors, Religious Activities and Education	1,992	2,104	112	5.62%	91	156	56	303	3	2	6
21-2099	Religious Workers, All Other	409	432	23	5.62%	28	28	12	68	3	3	6
23-0000	LEGAL OCCUPATIONS	7,605	7,819	214	2.81%	198	283	107	588			
23-1000	<i>Lawyers, Judges, and Related Workers</i>	4,432	4,535	103	2.32%	88	98	52	238			
23-1011	Lawyers	3,512	3,590	78	2.22%	70	77	39	186	1	3	6

*For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
23-1012	Judicial Law Clerks	72	74	2	2.78%	1	2	1	4	1	3	6
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	383	392	9	2.35%	8	8	4	20	1	1	5
23-1022	Arbitrators, Mediators, and Conciliators	157	164	7	4.46%	3	4	4	11	3	2	4
23-1023	Judges, Magistrate Judges, and Magistrates	308	315	7	2.27%	6	6	4	16	1	1	5
23-2000	Legal Support Workers	3,173	3,284	111	3.50%	110	185	56	351			
23-2011	Paralegals and Legal Assistants	1,754	1,813	59	3.36%	59	118	30	207	4	3	6
23-2091	Court Reporters	223	226	3	1.35%	8	10	2	20	5	3	5
23-2093	Title Examiners, Abstractors, and Searchers	903	950	47	5.20%	32	42	24	98	7	3	4
23-2099	Legal Support Workers, All Other	293	295	2	0.68%	10	14	1	25	4	3	6
25-0000	EDUCATION, TRAINING, AND LIBRARY OCCUPATIONS	81,097	82,632	1,535	1.89%	3,354	3,332	768	7,454			
25-1000	Postsecondary Teachers	16,465	16,968	503	3.05%	613	637	252	1,502			
25-1011	Business Teachers, Postsecondary	769	800	31	4.03%	28	30	16	74	1	3	6
25-1021	Computer Science Teachers, Postsecondary	330	337	7	2.12%	12	12	4	28	1	3	6
25-1022	Mathematical Science Teachers, Postsecondary	516	527	11	2.13%	19	20	6	45	1	3	6
25-1031	Architecture Teachers, Postsecondary	54	55	1	1.85%	2	2	0	4	1	3	6
25-1032	Engineering Teachers, Postsecondary	311	325	14	4.50%	12	12	7	31	1	3	6
25-1041	Agricultural Sciences Teachers, Postsecondary	473	485	12	2.54%	18	18	6	42	1	3	6
25-1042	Biological Science Teachers, Postsecondary	474	492	18	3.80%	18	18	9	45	1	3	6
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	79	82	3	3.80%	3	3	2	8	1	3	6
25-1052	Chemistry Teachers, Postsecondary	211	218	7	3.32%	8	8	4	20	1	3	6
25-1053	Environmental Science Teachers, Postsecondary	38	39	1	2.63%	2	2	0	4	1	3	6
25-1054	Physics Teachers, Postsecondary	108	112	4	3.70%	4	4	2	10	1	3	6
25-1061	Anthropology and Archeology Teachers, Postsecondary	37	38	1	2.70%	2	2	0	4	1	3	6

For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	52	54	2	3.85%	2	2	1	5	1	3	6
25-1063	Economics Teachers, Postsecondary	48	49	1	2.08%	2	2	0	4	1	3	6
25-1065	Political Science Teachers, Postsecondary	83	86	3	3.61%	3	3	2	8	1	3	6
25-1066	Psychology Teachers, Postsecondary	256	266	10	3.91%	10	10	5	25	1	3	6
25-1067	Sociology Teachers, Postsecondary	85	88	3	3.53%	3	4	2	9	1	3	6
25-1069	Social Sciences Teachers, Postsecondary, All Other	229	232	3	1.31%	8	9	2	19	1	3	6
25-1071	Health Specialties Teachers, Postsecondary	1,799	1,876	77	4.28%	68	70	38	176	1	2	6
25-1072	Nursing Instructors and Teachers, Postsecondary	781	815	34	4.35%	29	30	17	76	1	2	6
25-1081	Education Teachers, Postsecondary	660	678	18	2.73%	24	26	9	59	1	2	6
25-1082	Library Science Teachers, Postsecondary	27	28	1	3.70%	1	1	0	2	1	3	6
25-1112	Law Teachers, Postsecondary	95	99	4	4.21%	4	4	2	10	1	2	6
25-1121	Art, Drama, and Music Teachers, Postsecondary	613	633	20	3.26%	23	24	10	57	2	3	6
25-1122	Communications Teachers, Postsecondary	350	360	10	2.86%	13	14	5	32	1	3	6
25-1123	English Language and Literature Teachers, Postsecondary	803	824	21	2.62%	30	31	10	71	1	3	6
25-1124	Foreign Language and Literature Teachers, Postsecondary	158	163	5	3.16%	6	6	2	14	1	3	6
25-1125	History Teachers, Postsecondary	284	292	8	2.82%	10	11	4	25	1	3	6
25-1126	Philosophy and Religion Teachers, Postsecondary	103	108	5	4.85%	4	4	2	10	1	3	6
25-1191	Graduate Teaching Assistants	4,080	4,192	112	2.75%	152	158	56	366	3	3	6
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	169	175	6	3.55%	6	6	3	15	1	3	6
25-1194	Vocational Education Teachers, Postsecondary	1,113	1,126	13	1.17%	41	42	6	89	3	2	6
25-1199	Postsecondary Teachers, All Other	995	1,023	28	2.81%	37	38	14	89	1	3	6
25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	40,663	41,089	426	1.05%	1,371	1,596	213	3,180			

*For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
25-2011	Preschool Teachers, Except Special Education	3,295	3,335	40	1.21%	143	177	20	340	4	3	6
25-2012	Kindergarten Teachers, Except Special Education	1,698	1,715	17	1.00%	74	91	8	173	3	3	6
25-2021	Elementary School Teachers, Except Special Education	12,573	12,693	120	0.95%	417	468	60	945	3	3	6
25-2022	Middle School Teachers, Except Special and Career/Technical Education	6,410	6,474	64	1.00%	212	238	32	482	3	3	6
25-2023	Career/Technical Education Teachers, Middle School	94	95	1	1.06%	3	4	0	7	3	2	6
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	11,103	11,217	114	1.03%	342	416	57	815	3	3	6
25-2032	Career/Technical Education Teachers, Secondary School	1,488	1,507	19	1.28%	46	56	10	112	3	2	6
25-2051	Special Education Teachers, Preschool	694	711	17	2.45%	24	26	8	58	3	3	6
25-2052	Special Education Teachers, Kindergarten and Elementary School	1,217	1,231	14	1.15%	40	44	7	91	3	3	6
25-2053	Special Education Teachers, Middle School	824	831	7	0.85%	28	30	4	62	3	3	6
25-2054	Special Education Teachers, Secondary School	1,194	1,206	12	1.01%	40	44	6	90	3	3	6
25-2059	Special Education Teachers, All Other	73	74	1	1.37%	2	2	0	4	3	3	6
25-3000	Other Teachers and Instructors	7,864	8,222	358	4.55%	490	376	179	1,045			
25-3021	Self-Enrichment Education Teachers	1,068	1,104	36	3.37%	66	51	18	135	7	2	6
25-3097	Teachers and Instructors, All Other, Except Substitute Teachers	1,093	1,113	20	1.83%	67	52	10	129	3	3	6
25-4000	Librarians, Curators, and Archivists	1,979	2,019	40	2.02%	117	84	20	221			
25-4011	Archivists	61	62	1	1.64%	2	4	0	6	2	3	6
25-4012	Curators	53	56	3	5.66%	2	3	2	7	2	3	6
25-4013	Museum Technicians and Conservators	75	77	2	2.67%	3	4	1	8	3	3	6
25-4021	Librarians	1,365	1,388	23	1.68%	75	52	12	139	2	3	6
25-4031	Library Technicians	425	436	11	2.59%	34	22	6	62	5	3	6
25-9000	Other Education, Training, and Library Occupations	14,126	14,334	208	1.47%	764	638	104	1,506			

For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
25-9011	Audio-Visual and Multimedia Collections Specialists	89	91	2	2.25%	4	4	1	9	3	2	6
25-9021	Farm and Home Management Advisors	270	276	6	2.22%	13	11	3	27	2	3	6
25-9031	Instructional Coordinators	1,977	2,016	39	1.97%	95	82	20	197	2	1	6
25-9041	Teacher Assistants	11,670	11,828	158	1.35%	645	536	79	1,260	6	3	6
25-9099	Education, Training, and Library Workers, All Other	120	123	3	2.50%	6	5	2	13	3	3	6
27-0000	ARTS, DESIGN, ENTERTAINMENT, SPORTS, AND MEDIA OCCUPATIONS	14,957	15,278	321	2.15%	599	855	160	1,614			
27-1000	Art and Design Workers	5,274	5,388	114	2.16%	199	278	57	534			
27-1011	Art Directors	273	282	9	3.30%	14	8	4	26	3	1	6
27-1014	Multimedia Artists and Animators	228	233	5	2.19%	11	6	2	19	3	3	6
27-1023	Floral Designers	741	721	-20	-2.70%	26	41	-10	57	7	3	4
27-1024	Graphic Designers	1,753	1,797	44	2.51%	62	100	22	184	3	3	6
27-1025	Interior Designers	365	375	10	2.74%	13	21	5	39	3	3	6
27-2000	Entertainers and Performers, Sports and Related Workers	3,433	3,545	112	3.26%	178	229	56	463			
27-2012	Producers and Directors	540	558	18	3.33%	14	34	9	57	3	2	6
27-2022	Coaches and Scouts	1,947	2,010	63	3.24%	110	149	32	291	3	3	6
27-2041	Music Directors and Composers	527	554	27	5.12%	31	20	14	65	3	2	6
27-3000	Media and Communication Workers	4,205	4,268	63	1.50%	146	252	32	430			
27-3011	Radio and Television Announcers	521	513	-8	-1.54%	22	27	-4	45	3	3	6
27-3022	Reporters and Correspondents	361	342	-19	-5.26%	11	23	-10	24	3	3	6
27-3031	Public Relations Specialists	1,230	1,267	37	3.01%	35	84	18	137	3	3	6
27-3041	Editors	1,109	1,122	13	1.17%	37	70	6	113	3	2	6
27-3042	Technical Writers	170	181	11	6.47%	6	10	6	22	3	2	5
27-3043	Writers and Authors	564	585	21	3.72%	24	24	10	58	3	3	3
27-3091	Interpreters and Translators	188	195	7	3.72%	8	8	4	20	3	3	6
27-3099	Media and Communication Workers, All Other	26	27	1	3.85%	1	1	0	2	7	3	5
27-4000	Media and Communication Equipment Workers	2,045	2,077	32	1.56%	76	96	16	188			

*For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
27-4011	Audio and Video Equipment Technicians	378	400	22	5.82%	11	24	11	46	5	3	5
27-4012	Broadcast Technicians	242	242	0	0.00%	7	15	0	22	4	3	5
27-4014	Sound Engineering Technicians	40	42	2	5.00%	1	2	1	4	5	3	5
27-4021	Photographers	1,179	1,185	6	0.51%	50	42	3	95	7	3	3
27-4099	Media and Communication Equipment Workers, All Other	24	23	-1	-4.17%	0	2	0	2	7	3	5
29-0000	HEALTHCARE PRACTITIONERS AND TECHNICAL OCCUPATIONS	85,874	88,457	2,583	3.01%	2,370	2,357	1,292	6,019			
29-1000	Health Diagnosing and Treating Practitioners	48,332	49,976	1,644	3.40%	1,191	1,024	822	3,037			
29-1011	Chiropractors	504	523	19	3.77%	8	4	10	22	1	3	6
29-1021	Dentists, General	944	984	40	4.24%	18	7	20	45	1	3	6
29-1029	Dentists, All Other Specialists	42	43	1	2.38%	1	0	0	1	1	3	2
29-1031	Dietitians and Nutritionists	519	529	10	1.93%	16	15	5	36	3	3	2
29-1041	Optometrists	334	349	15	4.49%	6	4	8	18	1	3	6
29-1051	Pharmacists	3,725	3,832	107	2.87%	87	72	54	213	1	3	6
29-1062	Family and General Practitioners	1,440	1,485	45	3.13%	22	16	22	60	1	3	2
29-1063	Internists, General	243	248	5	2.06%	4	2	2	8	1	3	2
29-1064	Obstetricians and Gynecologists	182	187	5	2.75%	2	2	2	6	1	3	2
29-1065	Pediatricians, General	136	139	3	2.21%	2	2	2	6	1	3	2
29-1066	Psychiatrists	262	271	9	3.44%	4	3	4	11	1	3	2
29-1067	Surgeons	261	270	9	3.45%	4	3	4	11	1	3	2
29-1069	Physicians and Surgeons, All Other	2,993	3,046	53	1.77%	44	34	26	104	1	3	2
29-1071	Physician Assistants	515	549	34	6.60%	9	19	17	45	2	3	6
29-1081	Podiatrists	61	62	1	1.64%	2	2	0	4	1	3	2
29-1122	Occupational Therapists	1,263	1,343	80	6.33%	27	36	40	103	2	3	6
29-1123	Physical Therapists	2,198	2,340	142	6.46%	44	47	71	162	1	3	6
29-1124	Radiation Therapists	316	326	10	3.16%	8	7	5	20	4	3	6
29-1125	Recreational Therapists	66	65	-1	-1.52%	2	2	0	4	3	3	6
29-1126	Respiratory Therapists	1,012	1,061	49	4.84%	24	24	24	72	4	3	6
29-1127	Speech-Language Pathologists	2,108	2,220	112	5.31%	39	68	56	163	2	3	2
29-1128	Exercise Physiologists	79	82	3	3.80%	2	2	2	6	3	3	6

For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
29-1131	Veterinarians	693	728	35	5.05%	14	12	18	44	1	3	6
29-1141	Registered Nurses	25,612	26,305	693	2.71%	743	564	346	1,653	3	3	6
29-1151	Nurse Anesthetists	369	382	13	3.52%	5	12	6	23	2	3	6
29-1171	Nurse Practitioners	1,899	2,033	134	7.06%	38	56	67	161	2	3	6
29-1199	Health Diagnosing and Treating Practitioners, All Other	245	250	5	2.04%	10	2	2	14	2	3	6
29-2000	Health Technologists and Technicians	35,998	36,900	902	2.51%	1,144	1,290	451	2,885			
29-2010	Clinical Laboratory Technologists and Technicians	375	377	2	0.53%	12	12	1	25	4	3	6
29-2011	Medical and Clinical Laboratory Technologists	935	948	13	1.39%	28	28	6	62	3	3	6
29-2012	Medical and Clinical Laboratory Technicians	1,031	1,048	17	1.65%	32	32	8	72	4	3	6
29-2021	Dental Hygienists	1,434	1,488	54	3.77%	53	33	27	113	4	3	6
29-2031	Cardiovascular Technologists and Technicians	635	646	11	1.73%	16	16	6	38	4	3	6
29-2032	Diagnostic Medical Sonographers	578	601	23	3.98%	15	14	12	41	4	3	6
29-2033	Nuclear Medicine Technologists	180	183	3	1.67%	4	4	2	10	4	3	6
29-2034	Radiologic Technologists	2,519	2,573	54	2.14%	66	64	27	157	4	3	6
29-2035	Magnetic Resonance Imaging Technologists	374	383	9	2.41%	10	10	4	24	4	2	6
29-2041	Emergency Medical Technicians and Paramedics	2,421	2,491	70	2.89%	43	101	35	179	5	3	6
29-2051	Dietetic Technicians	159	161	2	1.26%	5	7	1	13	4	3	6
29-2052	Pharmacy Technicians	6,161	6,428	267	4.33%	204	279	134	617	7	3	4
29-2053	Psychiatric Technicians	806	821	15	1.86%	26	36	8	70	5	2	5
29-2054	Respiratory Therapy Technicians	289	257	-32	-11.07%	9	12	-16	5	4	3	6
29-2055	Surgical Technologists	1,150	1,171	21	1.83%	38	52	10	100	5	3	6
29-2056	Veterinary Technologists and Technicians	421	445	24	5.70%	14	19	12	45	4	3	6
29-2057	Ophthalmic Medical Technicians	235	245	10	4.26%	8	10	5	23	5	3	6
29-2061	Licensed Practical and Licensed Vocational Nurses	12,687	12,922	235	1.85%	452	445	118	1,015	5	3	6
29-2071	Medical Records and Health Information Technicians	1,924	1,979	55	2.86%	58	58	28	144	5	3	6
29-2081	Opticians, Dispensing	544	564	20	3.68%	18	20	10	48	7	3	3
29-2099	Health Technologists and Technicians, All Other	1,030	1,055	25	2.43%	29	34	12	75	5	3	6

*For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
29-9000	<i>Other Healthcare Practitioners and Technical Occupations</i>	1,544	1,581	37	2.40%	34	43	18	95			
29-9011	Occupational Health and Safety Specialists	626	637	11	1.76%	14	18	6	38	3	3	6
29-9012	Occupational Health and Safety Technicians	190	202	12	6.32%	4	6	6	16	7	3	4
29-9099	Healthcare Practitioners and Technical Workers, All Other	558	563	5	0.90%	12	16	2	30	5	3	6
31-0000	HEALTHCARE SUPPORT OCCUPATIONS	39,155	40,624	1,469	3.75%	2,296	2,166	734	5,196			
31-1000	<i>Nursing, Psychiatric, and Home Health Aides</i>	27,284	28,218	934	3.42%	1,686	1,402	467	3,555			
31-1011	Home Health Aides	7,839	8,253	414	5.28%	489	406	207	1,102	7	3	5
31-1013	Psychiatric Aides	370	378	8	2.16%	22	19	4	45	7	3	5
31-1014	Nursing Assistants	18,698	19,200	502	2.68%	1,151	958	251	2,360	5	3	6
31-1015	Orderlies	377	387	10	2.65%	23	20	5	48	7	3	5
31-2000	<i>Occupational Therapy and Physical Therapist Assistants and Aides</i>	1,625	1,723	98	6.03%	75	123	49	247			
31-2021	Physical Therapist Assistants	1,071	1,133	62	5.79%	48	81	31	160	4	3	6
31-2022	Physical Therapist Aides	268	286	18	6.72%	12	20	9	41	7	3	5
31-9000	<i>Other Healthcare Support Occupations</i>	10,246	10,683	437	4.27%	535	640	218	1,393			
31-9011	Massage Therapists	457	484	27	5.91%	31	17	14	62	5	3	6
31-9091	Dental Assistants	2,765	2,868	103	3.73%	144	161	52	357	5	3	6
31-9092	Medical Assistants	3,372	3,558	186	5.52%	152	213	93	458	5	3	6
31-9093	Medical Equipment Preparers	230	234	4	1.74%	14	14	2	30	7	3	4
31-9094	Medical Transcriptionists	519	512	-7	-1.35%	34	26	-4	56	5	3	6
31-9095	Pharmacy Aides	305	315	10	3.28%	20	21	5	46	7	3	5
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	926	985	59	6.37%	55	90	30	175	7	3	5
31-9097	Phlebotomists	1,127	1,178	51	4.53%	50	66	26	142	5	3	6
31-9099	Healthcare Support Workers, All Other	545	549	4	0.73%	34	32	2	68	7	3	6
33-0000	PROTECTIVE SERVICE OCCUPATIONS	27,302	27,810	508	1.86%	1,178	1,400	254	2,832			

For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
33-1000	Supervisors of Protective Service Workers	3,573	3,654	81	2.27%	120	126	40	286			
33-1011	First-Line Supervisors of Correctional Officers	404	403	-1	-0.25%	12	14	0	26	7	2	6
33-1012	First-Line Supervisors of Police and Detectives	1,620	1,664	44	2.72%	46	50	22	118	7	2	4
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	861	885	24	2.79%	30	26	12	68	5	2	4
33-1099	First-Line Supervisors of Protective Service Workers, All Other	688	702	14	2.03%	32	34	7	73	7	2	6
33-2000	Fire Fighting and Prevention Workers	2,581	2,659	78	3.02%	65	114	39	218			
33-2011	Firefighters	2,345	2,412	67	2.86%	54	101	34	189	5	3	3
33-2021	Fire Inspectors and Investigators	40	41	1	2.50%	2	2	0	4	5	1	4
33-2022	Forest Fire Inspectors and Prevention Specialists	196	206	10	5.10%	10	10	5	25	7	2	4
33-3000	Law Enforcement Workers	12,480	12,606	126	1.01%	375	520	63	958			
33-3011	Bailiffs	101	103	2	1.98%	4	4	1	9	7	3	4
33-3012	Correctional Officers and Jailers	5,603	5,552	-51	-0.91%	197	250	-26	421	7	3	4
33-3021	Detectives and Criminal Investigators	477	485	8	1.68%	13	17	4	34	7	2	4
33-3041	Parking Enforcement Workers	34	32	-2	-5.88%	2	1	-1	2	7	3	5
33-3051	Police and Sheriff's Patrol Officers	6,040	6,208	168	2.78%	148	238	84	470	7	3	4
33-9000	Other Protective Service Workers	8,668	8,891	223	2.57%	618	642	112	1,372			
33-9011	Animal Control Workers	179	184	5	2.79%	8	10	2	20	7	3	4
33-9021	Private Detectives and Investigators	291	302	11	3.78%	15	13	6	34	7	2	4
33-9032	Security Guards	6,748	6,932	184	2.73%	406	482	92	980	7	3	5
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	495	514	19	3.84%	70	53	10	133	8	3	5
33-9093	Transportation Security Screeners	156	153	-3	-1.92%	8	6	-2	12	7	3	5
33-9099	Protective Service Workers, All Other	676	678	2	0.30%	94	72	1	167	7	3	5
35-0000	FOOD PREPARATION AND SERVING RELATED OCCUPATIONS	104,911	108,190	3,279	3.13%	7,840	9,916	1,640	19,396			

*For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
35-1000	<i>Supervisors of Food Preparation and Serving Workers</i>	11,709	12,043	334	2.85%	523	1,130	167	1,820			
35-1011	Chefs and Head Cooks	696	718	22	3.16%	22	64	11	97	7	1	6
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	11,013	11,325	312	2.83%	500	1,066	156	1,722	7	2	6
35-2000	<i>Cooks and Food Preparation Workers</i>	28,056	28,677	621	2.21%	1,752	2,297	310	4,359			
35-2011	Cooks, Fast Food	5,590	5,599	9	0.16%	328	448	4	780	8	3	5
35-2012	Cooks, Institution and Cafeteria	7,459	7,596	137	1.84%	441	602	68	1,111	8	3	5
35-2014	Cooks, Restaurant	10,134	10,493	359	3.54%	604	825	180	1,609	8	2	4
35-2015	Cooks, Short Order	466	471	5	1.07%	28	38	2	68	8	3	5
35-2021	Food Preparation Workers	4,137	4,238	101	2.44%	334	363	50	747	8	3	5
35-3000	<i>Food and Beverage Serving Workers</i>	57,294	59,420	2,126	3.71%	4,852	5,790	1,063	11,705			
35-3011	Bartenders	1,879	1,915	36	1.92%	92	218	18	328	8	3	5
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	34,473	36,026	1,553	4.50%	3,122	3,264	776	7,162	8	3	5
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	1,432	1,472	40	2.79%	174	137	20	331	8	3	5
35-3031	Waiters and Waitresses	17,920	18,380	460	2.57%	1,344	2,058	230	3,632	8	3	5
35-3041	Food Servers, Nonrestaurant	1,590	1,627	37	2.33%	121	113	18	252	8	3	5
35-9000	<i>Other Food Preparation and Serving Related Workers</i>	7,852	8,050	198	2.52%	714	698	99	1,511			
35-9021	Dishwashers	3,410	3,488	78	2.29%	255	275	39	569	8	3	5
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	2,184	2,239	55	2.52%	254	242	28	524	8	3	5
37-0000	BUILDING AND GROUNDS CLEANING AND MAINTENANCE OCCUPATIONS	44,898	46,398	1,500	3.34%	2,766	2,896	750	6,412			
37-1000	<i>Supervisors of Building and Grounds Cleaning and Maintenance Workers</i>	4,661	4,828	167	3.58%	200	286	84	570			
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	2,551	2,628	77	3.02%	131	156	38	325	7	2	6

For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	2,110	2,200	90	4.27%	70	130	45	245	7	2	6
37-2000	Building Cleaning and Pest Control Workers	31,539	32,454	915	2.90%	2,150	1,974	458	4,582			
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	19,076	19,766	690	3.62%	1,264	1,222	345	2,831	8	3	5
37-2012	Maids and Housekeeping Cleaners	11,000	11,146	146	1.33%	820	619	73	1,512	8	3	5
37-3000	Grounds Maintenance Workers	8,698	9,116	418	4.81%	416	636	209	1,261			
37-3011	Landscaping and Groundskeeping Workers	7,680	8,059	379	4.93%	368	562	190	1,120	8	3	5
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	306	323	17	5.56%	14	22	8	44	7	3	4
37-3013	Tree Trimmers and Pruners	497	512	15	3.02%	24	36	8	68	7	3	5
37-3019	Grounds Maintenance Workers, All Other	215	222	7	3.26%	10	16	4	30	8	3	5
39-0000	PERSONAL CARE AND SERVICE OCCUPATIONS	47,300	49,199	1,899	4.01%	3,674	3,254	950	7,878			
39-1000	Supervisors of Personal Care and Service Workers	1,996	2,073	77	3.86%	98	96	38	232			
39-1021	First-Line Supervisors of Personal Service Workers	1,916	1,991	75	3.91%	94	88	38	220	7	2	6
39-2000	Animal Care and Service Workers	4,915	5,071	156	3.17%	312	376	78	766			
39-2011	Animal Trainers	1,401	1,449	48	3.43%	68	89	24	181	7	3	4
39-2021	Nonfarm Animal Caretakers	3,514	3,622	108	3.07%	244	288	54	586	7	3	5
39-3000	Entertainment Attendants and Related Workers	2,391	2,508	117	4.89%	263	280	58	601			
39-3021	Motion Picture Projectionists	57	56	-1	-1.75%	2	4	0	6	8	3	5
39-3031	Ushers, Lobby Attendants, and Ticket Takers	570	580	10	1.75%	76	64	5	145	8	3	5
39-3091	Amusement and Recreation Attendants	1,524	1,624	100	6.56%	166	187	50	403	8	3	5
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	84	88	4	4.76%	9	10	2	21	7	3	5
39-4000	Funeral Service Workers	818	834	16	1.96%	57	55	8	120			
39-4011	Embalmers	124	126	2	1.61%	11	8	1	20	4	3	3

*For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
39-4021	Funeral Attendants	285	291	6	2.11%	26	18	3	47	7	3	5
39-4031	Morticians, Undertakers, and Funeral Directors	409	417	8	1.96%	20	30	4	54	4	3	3
39-5000	Personal Appearance Workers	3,013	3,097	84	2.79%	200	152	42	394			
39-5012	Hairdressers, Hairstylists, and Cosmetologists	2,586	2,658	72	2.78%	175	131	36	342	5	3	6
39-5092	Manicurists and Pedicurists	194	199	5	2.58%	12	10	2	24	5	3	6
39-5094	Skincare Specialists	147	150	3	2.04%	9	8	2	19	5	3	6
39-6000	Baggage Porters, Bellhops, and Concierges	139	141	2	1.44%	6	12	1	19			
39-6011	Baggage Porters and Bellhops	116	118	2	1.72%	6	10	1	17	7	3	5
39-6012	Concierges	23	23	0	0.00%	1	2	0	3	7	3	4
39-7000	Tour and Travel Guides	213	216	3	1.41%	18	18	2	38			
39-7010	Tour and Travel Guides	110	111	1	0.91%	10	9	0	19	7	3	4
39-7011	Tour Guides and Escorts	103	105	2	1.94%	9	8	1	18	7	3	4
39-9000	Other Personal Care and Service Workers	33,815	35,259	1,444	4.27%	2,719	2,264	722	5,705			
39-9011	Childcare Workers	12,769	13,016	247	1.93%	1,052	798	124	1,974	7	3	5
39-9021	Personal Care Aides	16,820	17,855	1,035	6.15%	1,384	1,042	518	2,944	7	3	5
39-9031	Fitness Trainers and Aerobics Instructors	1,076	1,122	46	4.28%	72	110	23	205	7	3	5
39-9032	Recreation Workers	1,925	2,002	77	4.00%	128	196	38	362	7	3	5
39-9041	Residential Advisors	891	918	27	3.03%	60	90	14	164	7	3	5
39-9099	Personal Care and Service Workers, All Other	334	346	12	3.59%	22	26	6	54	7	3	5
41-0000	SALES AND RELATED OCCUPATIONS	142,104	143,583	1,479	1.04%	8,684	11,074	740	20,498			
41-1000	Supervisors of Sales Workers	22,382	22,647	265	1.18%	817	1,470	132	2,419			
41-1011	First-Line Supervisors of Retail Sales Workers	18,539	18,702	163	0.88%	688	1,253	82	2,023	7	2	6
41-1012	First-Line Supervisors of Non-Retail Sales Workers	3,843	3,945	102	2.65%	130	217	51	398	7	2	6
41-2000	Retail Sales Workers	85,686	85,837	151	0.18%	6,468	7,246	76	13,790			
41-2011	Cashiers	38,022	37,649	-373	-0.98%	3,552	3,467	-186	6,833	8	3	5
41-2021	Counter and Rental Clerks	3,910	4,012	102	2.61%	208	290	51	549	8	3	5
41-2022	Parts Salespersons	3,779	3,873	94	2.49%	166	302	47	515	8	3	4
41-2031	Retail Salespersons	39,975	40,303	328	0.82%	2,541	3,186	164	5,891	8	3	5

For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
41-3000	Sales Representatives, Services	11,348	11,724	376	3.31%	411	817	188	1,416			
41-3011	Advertising Sales Agents	1,149	1,144	-5	-0.44%	43	99	-2	140	7	3	4
41-3021	Insurance Sales Agents	4,542	4,769	227	5.00%	189	250	114	553	7	3	4
41-3031	Securities, Commodities, and Financial Services Sales Agents	1,136	1,153	17	1.50%	30	76	8	114	3	3	4
41-3041	Travel Agents	170	163	-7	-4.12%	9	10	-4	15	7	3	4
41-3099	Sales Representatives, Services, All Other	4,351	4,495	144	3.31%	140	382	72	594	7	3	4
41-4000	Sales Representatives, Wholesale and Manufacturing	14,944	15,410	466	3.12%	501	1,016	233	1,750			
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	2,364	2,444	80	3.38%	80	161	40	281	3	3	4
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	12,580	12,966	386	3.07%	422	856	193	1,471	7	3	4
41-9000	Other Sales and Related Workers	7,744	7,965	221	2.85%	486	526	110	1,122			
41-9021	Real Estate Brokers	337	350	13	3.86%	18	14	6	38	7	2	6
41-9022	Real Estate Sales Agents	1,847	1,915	68	3.68%	96	74	34	204	7	3	4
41-9031	Sales Engineers	140	141	1	0.71%	4	11	0	15	3	3	4
41-9041	Telemarketers	2,806	2,858	52	1.85%	169	267	26	462	8	3	5
41-9091	Door-to-Door Sales Workers, News and Street Vendors, and Related Workers	868	876	8	0.92%	58	32	4	94	8	3	5
41-9099	Sales and Related Workers, All Other	778	795	17	2.19%	42	60	8	110	7	3	6
43-0000	OFFICE AND ADMINISTRATIVE SUPPORT OCCUPATIONS	182,523	185,905	3,382	1.85%	9,436	10,876	1,691	22,003			
43-1000	Supervisors of Office and Administrative Support Workers	15,098	15,426	328	2.17%	592	881	164	1,637			
43-1011	First-Line Supervisors of Office and Administrative Support Workers	15,098	15,426	328	2.17%	592	881	164	1,637	7	2	6
43-2000	Communications Equipment Operators	706	691	-15	-2.12%	44	47	-8	83			
43-2011	Switchboard Operators, Including Answering Service	680	666	-14	-2.06%	42	45	-7	80	7	3	5

*For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
43-3000	Financial Clerks	25,536	25,993	457	1.79%	1,398	1,352	228	2,978			
43-3011	Bill and Account Collectors	2,514	2,522	8	0.32%	94	166	4	264	7	3	4
43-3021	Billing and Posting Clerks	4,499	4,665	166	3.69%	196	252	83	531	7	3	4
43-3031	Bookkeeping, Accounting, and Auditing Clerks	15,921	16,169	248	1.56%	994	771	124	1,889	6	3	4
43-3051	Payroll and Timekeeping Clerks	1,273	1,297	24	1.89%	54	72	12	138	7	3	4
43-3061	Procurement Clerks	736	738	2	0.27%	31	48	1	80	7	3	4
43-3071	Tellers	271	268	-3	-1.11%	14	18	-2	30	7	3	5
43-4000	Information and Record Clerks	40,667	41,847	1,180	2.90%	2,142	2,857	590	5,589			
43-4011	Brokerage Clerks	118	120	2	1.69%	3	9	1	13	7	3	4
43-4021	Correspondence Clerks	22	23	1	4.55%	1	2	0	3	7	3	5
43-4031	Court, Municipal, and License Clerks	1,189	1,224	35	2.94%	54	48	18	120	7	3	4
43-4041	Credit Authorizers, Checkers, and Clerks	114	118	4	3.51%	4	8	2	14	7	3	4
43-4051	Customer Service Representatives	17,272	17,887	615	3.56%	898	1,319	308	2,525	7	3	5
43-4061	Eligibility Interviewers, Government Programs	1,775	1,794	19	1.07%	71	84	10	165	7	3	4
43-4071	File Clerks	503	498	-5	-0.99%	30	30	-2	58	7	3	5
43-4081	Hotel, Motel, and Resort Desk Clerks	2,454	2,478	24	0.98%	136	244	12	392	7	3	5
43-4111	Interviewers, Except Eligibility and Loan	1,521	1,554	33	2.17%	82	96	16	194	7	3	5
43-4121	Library Assistants, Clerical	553	567	14	2.53%	44	34	7	85	7	3	5
43-4131	Loan Interviewers and Clerks	3,405	3,517	112	3.29%	124	200	56	380	7	3	5
43-4151	Order Clerks	632	638	6	0.95%	30	42	3	75	7	3	5
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	931	936	5	0.54%	40	62	2	104	4	3	6
43-4171	Receptionists and Information Clerks	8,889	9,182	293	3.30%	562	600	146	1,308	7	3	5
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	342	365	23	6.73%	15	21	12	48	7	3	5
43-4199	Information and Record Clerks, All Other	942	941	-1	-0.11%	46	59	0	105	7	3	5
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	33,664	34,268	604	1.79%	1,540	2,014	302	3,856			
43-5011	Cargo and Freight Agents	927	996	69	7.44%	30	48	34	112	7	3	5
43-5021	Couriers and Messengers	606	633	27	4.46%	28	27	14	69	7	3	5

For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
43-5031	Police, Fire, and Ambulance Dispatchers	956	984	28	2.93%	34	52	14	100	7	3	4
43-5032	Dispatchers, Except Police, Fire, and Ambulance	1,772	1,832	60	3.39%	64	97	30	191	7	3	4
43-5041	Meter Readers, Utilities	724	720	-4	-0.55%	24	29	-2	51	7	3	5
43-5051	Postal Service Clerks	1,101	1,104	3	0.27%	56	30	2	88	7	3	5
43-5052	Postal Service Mail Carriers	3,136	3,145	9	0.29%	122	88	4	214	7	3	5
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	564	560	-4	-0.71%	24	16	-2	38	7	3	5
43-5061	Production, Planning, and Expediting Clerks	3,663	3,763	100	2.73%	129	241	50	420	7	3	4
43-5071	Shipping, Receiving, and Traffic Clerks	4,266	4,357	91	2.13%	168	256	46	470	7	3	5
43-5081	Stock Clerks and Order Fillers	14,871	15,055	184	1.24%	817	1,066	92	1,975	7	3	5
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	1,078	1,119	41	3.80%	44	63	20	127	7	3	5
43-6000	Secretaries and Administrative Assistants	30,069	30,231	162	0.54%	1,624	1,580	81	3,285			
43-6011	Executive Secretaries and Executive Administrative Assistants	4,265	4,253	-12	-0.28%	230	223	-6	447	7	2	6
43-6012	Legal Secretaries	1,667	1,613	-54	-3.24%	88	86	-27	147	7	3	4
43-6013	Medical Secretaries	3,959	4,118	159	4.02%	218	212	80	510	7	3	4
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	20,178	20,247	69	0.34%	1,089	1,059	34	2,182	7	3	5
43-9000	Other Office and Administrative Support Workers	36,783	37,449	666	1.81%	2,096	2,144	333	4,573			
43-9011	Computer Operators	288	280	-8	-2.78%	12	18	-4	26	7	3	4
43-9021	Data Entry Keyers	1,166	1,145	-21	-1.80%	60	74	-10	124	7	3	5
43-9022	Word Processors and Typists	293	278	-15	-5.12%	18	14	-8	24	7	3	5
43-9041	Insurance Claims and Policy Processing Clerks	1,899	2,093	194	10.22%	86	112	97	295	7	3	4
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	398	399	1	0.25%	22	22	0	44	7	3	5
43-9061	Office Clerks, General	30,291	30,760	469	1.55%	1,791	1,746	234	3,771	7	3	5
43-9071	Office Machine Operators, Except Computer	312	307	-5	-1.60%	14	20	-2	32	7	3	5
43-9111	Statistical Assistants	83	90	7	8.43%	4	6	4	14	3	3	6

*For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
43-9199	Office and Administrative Support Workers, All Other	1,994	2,036	42	2.11%	88	128	21	237	7	3	5
45-0000	FARMING, FISHING, AND FORESTRY OCCUPATIONS	20,336	21,506	1,170	5.75%	769	2,265	585	3,619			
45-1000	<i>Supervisors of Farming, Fishing, and Forestry Workers</i>	902	942	40	4.43%	30	90	20	140			
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	902	942	40	4.43%	30	90	20	140	7	2	6
45-2000	<i>Agricultural Workers</i>	16,822	17,936	1,114	6.62%	644	1,932	557	3,133			
45-2011	Agricultural Inspectors	351	348	-3	-0.85%	15	31	-2	44	3	3	4
45-2041	Graders and Sorters, Agricultural Products	1,935	1,997	62	3.20%	78	184	31	293	8	3	5
45-2091	Agricultural Equipment Operators	1,015	1,101	86	8.47%	38	120	43	201	8	3	4
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	6,826	7,348	522	7.65%	259	808	261	1,328	8	3	5
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	6,323	6,734	411	6.50%	239	744	206	1,189	8	3	5
45-4000	<i>Forest, Conservation, and Logging Workers</i>	2,612	2,628	16	0.61%	94	242	8	344			
45-4022	Logging Equipment Operators	1,728	1,740	12	0.69%	62	158	6	226	7	3	4
45-4023	Log Graders and Scalers	303	310	7	2.31%	11	28	4	43	7	3	4
45-4029	Logging Workers, All Other	227	225	-2	-0.88%	8	20	-1	27	7	3	4
47-0000	CONSTRUCTION AND EXTRACTION OCCUPATIONS	52,628	54,059	1,431	2.72%	1,882	3,533	716	6,131			
47-1000	<i>Supervisors of Construction and Extraction Workers</i>	5,507	5,637	130	2.36%	178	352	65	595			
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	5,507	5,637	130	2.36%	178	352	65	595	7	1	6
47-2000	<i>Construction Trades Workers</i>	39,062	40,155	1,093	2.80%	1,372	2,579	546	4,497			
47-2011	Boilermakers	129	133	4	3.10%	4	8	2	14	7	3	1
47-2021	Brickmasons and Blockmasons	644	662	18	2.80%	19	36	9	64	7	3	1
47-2031	Carpenters	6,559	6,814	255	3.89%	230	372	128	730	7	3	1
47-2041	Carpet Installers	327	341	14	4.28%	10	18	7	35	8	3	5
47-2043	Floor Sanders and Finishers	179	186	7	3.91%	6	10	4	20	8	3	4
47-2044	Tile and Marble Setters	252	261	9	3.57%	8	14	4	26	8	3	3

For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
47-2051	Cement Masons and Concrete Finishers	1,458	1,491	33	2.26%	56	100	16	172	8	3	4
47-2061	Construction Laborers	8,774	9,012	238	2.71%	310	586	119	1,015	8	3	5
47-2071	Paving, Surfacing, and Tamping Equipment Operators	966	989	23	2.38%	32	66	12	110	7	3	4
47-2073	Operating Engineers and Other Construction Equipment Operators	3,906	3,999	93	2.38%	151	277	46	474	7	3	4
47-2081	Drywall and Ceiling Tile Installers	488	497	9	1.84%	15	28	4	47	8	3	4
47-2111	Electricians	6,042	6,188	146	2.42%	213	454	73	740	7	3	1
47-2121	Glaziers	422	434	12	2.84%	16	32	6	54	7	3	1
47-2131	Insulation Workers, Floor, Ceiling, and Wall	340	347	7	2.06%	9	26	4	39	8	3	5
47-2132	Insulation Workers, Mechanical	199	204	5	2.51%	6	16	2	24	7	3	1
47-2141	Painters, Construction and Maintenance	2,077	2,140	63	3.03%	72	105	32	209	8	3	4
47-2151	Pipelayers	274	273	-1	-0.36%	10	18	0	28	8	3	5
47-2152	Plumbers, Pipefitters, and Steamfitters	2,960	3,048	88	2.97%	109	201	44	354	7	3	1
47-2181	Roofers	859	882	23	2.68%	25	59	12	96	8	3	4
47-2211	Sheet Metal Workers	1,193	1,219	26	2.18%	42	82	13	137	7	3	1
47-2221	Structural Iron and Steel Workers	641	651	10	1.56%	18	48	5	71	7	3	1
47-3000	Helpers, Construction Trades	1,886	1,938	52	2.76%	81	184	26	291			
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	304	313	9	2.96%	13	30	4	47	8	3	5
47-3012	Helpers--Carpenters	272	285	13	4.78%	12	27	6	45	8	3	5
47-3013	Helpers--Electricians	496	506	10	2.02%	21	48	5	74	7	3	5
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	138	142	4	2.90%	6	14	2	22	8	3	5
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	261	269	8	3.07%	11	26	4	41	7	3	5
47-3016	Helpers--Roofers	115	118	3	2.61%	5	11	2	18	8	3	5
47-3019	Helpers, Construction Trades, All Other	300	305	5	1.67%	13	29	2	44	8	3	5
47-4000	Other Construction and Related Workers	4,784	4,913	129	2.70%	208	295	64	567			
47-4011	Construction and Building Inspectors	819	835	16	1.95%	40	47	8	95	7	1	4
47-4021	Elevator Installers and Repairers	95	97	2	2.11%	3	8	1	12	7	3	1

*For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
47-4031	Fence Erectors	220	231	11	5.00%	8	17	6	31	8	3	4
47-4041	Hazardous Materials Removal Workers	274	299	25	9.12%	12	22	12	46	7	3	4
47-4051	Highway Maintenance Workers	2,944	3,004	60	2.04%	126	170	30	326	7	3	4
47-4061	Rail-Track Laying and Maintenance Equipment Operators	59	56	-3	-5.08%	2	4	-2	4	7	3	4
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	213	229	16	7.51%	11	16	8	35	7	3	4
47-4090	Miscellaneous Construction and Related Workers	20	20	0	0.00%	1	2	0	3	7	3	4
47-4099	Construction and Related Workers, All Other	140	142	2	1.43%	6	9	1	16	7	3	4
47-5000	Extraction Workers	1,389	1,416	27	1.94%	43	123	14	180			
47-5011	Derrick Operators, Oil and Gas	69	70	1	1.45%	2	6	0	8	8	3	5
47-5012	Rotary Drill Operators, Oil and Gas	25	26	1	4.00%	0	2	0	2	8	3	4
47-5013	Service Unit Operators, Oil, Gas, and Mining	395	397	2	0.51%	10	36	1	47	8	3	4
47-5021	Earth Drillers, Except Oil and Gas	55	56	1	1.82%	2	4	0	6	7	3	4
47-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	124	122	-2	-1.61%	6	8	-1	13	7	2	3
47-5041	Continuous Mining Machine Operators	198	211	13	6.57%	6	18	6	30	8	3	4
47-5051	Rock Splitters, Quarry	49	52	3	6.12%	2	4	2	8	8	3	5
47-5071	Roustabouts, Oil and Gas	313	321	8	2.56%	11	28	4	43	8	3	4
47-5081	Helpers--Extraction Workers	82	86	4	4.88%	2	8	2	12	7	3	4
49-0000	INSTALLATION, MAINTENANCE, AND REPAIR OCCUPATIONS	60,180	61,878	1,698	2.82%	2,084	3,582	849	6,515			
49-1000	Supervisors of Installation, Maintenance, and Repair Workers	6,053	6,183	130	2.15%	198	316	65	579			
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	6,053	6,183	130	2.15%	198	316	65	579	7	2	6
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers	4,886	4,947	61	1.25%	156	330	30	516			

For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
49-2011	Computer, Automated Teller, and Office Machine Repairers	1,245	1,281	36	2.89%	42	80	18	140	6	3	5
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	1,711	1,690	-21	-1.23%	56	120	-10	166	5	3	4
49-2091	Avionics Technicians	47	50	3	6.38%	1	2	2	5	4	3	6
49-2092	Electric Motor, Power Tool, and Related Repairers	188	193	5	2.66%	6	12	2	20	7	2	4
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	191	196	5	2.62%	5	12	2	19	5	3	3
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	408	416	8	1.96%	10	25	4	39	5	3	3
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	189	185	-4	-2.12%	4	12	-2	14	5	2	4
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	308	313	5	1.62%	11	21	2	34	5	3	5
49-2098	Security and Fire Alarm Systems Installers	552	575	23	4.17%	18	42	12	72	7	3	4
49-3000	Vehicle and Mobile Equipment Mechanics, Installers, and Repairers	19,071	19,541	470	2.46%	623	1,185	235	2,043			
49-3011	Aircraft Mechanics and Service Technicians	490	515	25	5.10%	16	22	12	50	5	3	6
49-3021	Automotive Body and Related Repairers	1,798	1,831	33	1.84%	62	108	16	186	7	3	3
49-3022	Automotive Glass Installers and Repairers	105	106	1	0.95%	4	6	0	10	7	3	4
49-3023	Automotive Service Technicians and Mechanics	6,808	6,926	118	1.73%	216	414	59	689	5	3	5
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	4,595	4,727	132	2.87%	143	266	66	475	7	3	3
49-3041	Farm Equipment Mechanics and Service Technicians	1,589	1,654	65	4.09%	50	102	32	184	7	3	3
49-3043	Rail Car Repairers	320	330	10	3.13%	10	20	5	35	7	3	3
49-3051	Motorboat Mechanics and Service Technicians	154	162	8	5.19%	6	10	4	20	7	3	3
49-3052	Motorcycle Mechanics	243	256	13	5.35%	10	16	6	32	5	3	5
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	327	339	12	3.67%	14	20	6	40	7	3	4

*For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
49-3092	Recreational Vehicle Service Technicians	136	143	7	5.15%	5	12	4	21	7	3	3
49-3093	Tire Repairers and Changers	1,223	1,235	12	0.98%	46	106	6	158	7	3	5
49-9000	Other Installation, Maintenance, and Repair Occupations	30,170	31,207	1,037	3.44%	1,108	1,752	518	3,378			
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	272	265	-7	-2.57%	6	14	-4	16	7	3	4
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	2,904	3,013	109	3.75%	82	198	54	334	5	3	3
49-9031	Home Appliance Repairers	159	157	-2	-1.26%	8	7	-1	14	7	3	4
49-9041	Industrial Machinery Mechanics	5,913	6,252	339	5.73%	206	314	170	690	7	3	3
49-9043	Maintenance Workers, Machinery	958	1,019	61	6.37%	42	57	30	129	7	3	3
49-9044	Millwrights	399	408	9	2.26%	13	23	4	40	7	3	1
49-9051	Electrical Power-Line Installers and Repairers	2,063	2,034	-29	-1.41%	52	108	-14	146	7	3	3
49-9052	Telecommunications Line Installers and Repairers	1,234	1,213	-21	-1.70%	30	90	-10	110	7	3	3
49-9062	Medical Equipment Repairers	323	333	10	3.10%	12	16	5	33	4	3	4
49-9069	Precision Instrument and Equipment Repairers, All Other	38	39	1	2.63%	2	2	0	4	7	3	3
49-9071	Maintenance and Repair Workers, General	12,418	12,903	485	3.91%	516	704	242	1,462	7	3	4
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	247	249	2	0.81%	10	16	1	27	7	3	5
49-9094	Locksmiths and Safe Repairers	215	216	1	0.47%	10	9	0	19	7	3	3
49-9096	Riggers	223	242	19	8.52%	7	16	10	33	7	3	4
49-9098	Helpers--Installation, Maintenance, and Repair Workers	1,012	1,044	32	3.16%	50	78	16	144	7	3	5
49-9099	Installation, Maintenance, and Repair Workers, All Other	981	996	15	1.53%	36	57	8	101	7	3	4
51-0000	PRODUCTION OCCUPATIONS	117,174	121,211	4,037	3.45%	4,859	8,630	2,018	15,507			
51-1000	Supervisors of Production Workers	8,256	8,580	324	3.92%	268	539	162	969			
51-1011	First-Line Supervisors of Production and Operating Workers	8,256	8,580	324	3.92%	268	539	162	969	7	2	6
51-2000	Assemblers and Fabricators	16,404	16,628	224	1.37%	716	1,182	112	2,010			

For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
51-2021	Coil Winders, Tapers, and Finishers	341	301	-40	-11.73%	16	21	-20	17	7	3	4
51-2022	Electrical and Electronic Equipment Assemblers	834	815	-19	-2.28%	42	54	-10	86	7	3	4
51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	564	539	-25	-4.43%	28	36	-12	52	7	3	4
51-2031	Engine and Other Machine Assemblers	63	63	0	0.00%	2	4	0	6	7	3	4
51-2041	Structural Metal Fabricators and Fitters	302	305	3	0.99%	10	22	2	34	7	3	4
51-2091	Fiberglass Laminators and Fabricators	526	573	47	8.94%	24	40	24	88	7	3	4
51-2092	Team Assemblers	10,671	10,877	206	1.93%	460	780	103	1,343	7	3	4
51-2098	Assemblers and Fabricators, All Other, Including Team Assemblers	1,772	1,812	40	2.26%	76	130	20	226	7	3	4
51-2099	Assemblers and Fabricators, All Other	1,067	1,076	9	0.84%	46	78	4	128	7	3	4
51-3000	Food Processing Workers	18,358	19,345	987	5.38%	882	1,414	494	2,790			
51-3011	Bakers	832	860	28	3.37%	54	64	14	132	8	3	3
51-3021	Butchers and Meat Cutters	345	361	16	4.64%	16	27	8	51	8	3	3
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	7,820	8,271	451	5.77%	362	613	226	1,201	8	3	5
51-3023	Slaughterers and Meat Packers	2,018	2,132	114	5.65%	93	158	57	308	8	3	5
51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	73	76	3	4.11%	3	6	2	11	8	3	4
51-3092	Food Batchmakers	1,934	2,011	77	3.98%	108	165	38	311	7	3	4
51-3093	Food Cooking Machine Operators and Tenders	829	882	53	6.39%	46	70	26	142	7	3	4
51-3099	Food Processing Workers, All Other	4,507	4,752	245	5.44%	199	312	122	633	8	3	4
51-4000	Metal Workers and Plastic Workers	25,655	26,488	833	3.25%	847	1,861	416	3,124			
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	1,303	1,353	50	3.84%	36	93	25	154	7	3	4
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	82	88	6	7.32%	2	6	3	11	5	3	4

*For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	954	983	29	3.04%	24	72	14	110	7	3	4
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	207	208	1	0.48%	6	15	0	21	7	3	4
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	502	522	20	3.98%	14	36	10	60	7	3	4
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	2,110	2,181	71	3.36%	78	162	36	276	7	3	4
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	40	38	-2	-5.00%	2	2	-1	3	7	3	4
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,219	1,243	24	1.97%	42	86	12	140	7	3	4
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	458	475	17	3.71%	14	32	8	54	7	3	4
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	135	139	4	2.96%	5	10	2	17	7	3	4
51-4041	Machinists	5,683	5,879	196	3.45%	201	376	98	675	7	3	3
51-4051	Metal-Refining Furnace Operators and Tenders	298	319	21	7.05%	10	20	10	40	7	3	4
51-4071	Foundry Mold and Coremakers	80	76	-4	-5.00%	3	6	-2	7	7	3	4
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	3,437	3,493	56	1.63%	127	262	28	417	7	3	4
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	762	796	34	4.46%	29	54	17	100	7	3	4
51-4111	Tool and Die Makers	1,165	1,197	32	2.75%	46	64	16	126	5	3	3
51-4121	Welders, Cutters, Solderers, and Brazers	4,515	4,717	202	4.47%	123	360	101	584	7	3	4
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	779	819	40	5.13%	22	62	20	104	7	3	4

For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	906	926	20	2.21%	34	64	10	108	7	3	4
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	703	703	0	0.00%	18	52	0	70	7	3	4
51-4194	Tool Grinders, Filers, and Sharpeners	132	137	5	3.79%	4	12	2	18	7	3	4
51-5100	Printing Workers	2,654	2,613	-41	-1.54%	112	172	-20	264			
51-5111	Prepress Technicians and Workers	256	246	-10	-3.91%	10	19	-5	24	5	3	6
51-5112	Printing Press Operators	2,147	2,121	-26	-1.21%	83	139	-13	209	7	3	4
51-5113	Print Binding and Finishing Workers	251	246	-5	-1.99%	19	14	-2	31	7	3	4
51-6000	Textile, Apparel, and Furnishings Workers	5,416	5,557	141	2.60%	332	326	70	728			
51-6011	Laundry and Dry-Cleaning Workers	2,057	2,053	-4	-0.19%	138	138	-2	274	8	3	5
51-6021	Pressers, Textile, Garment, and Related Materials	269	258	-11	-4.09%	16	18	-6	28	8	3	5
51-6031	Sewing Machine Operators	1,752	1,893	141	8.05%	104	88	70	262	8	3	5
51-6041	Shoe and Leather Workers and Repairers	143	140	-3	-2.10%	6	7	-2	11	7	3	4
51-6052	Tailors, Dressmakers, and Custom Sewers	146	146	0	0.00%	13	6	0	19	8	3	4
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	24	26	2	8.33%	2	2	1	5	7	3	4
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	168	187	19	11.31%	10	12	10	32	7	3	4
51-6093	Upholsterers	64	68	4	6.25%	3	4	2	9	7	3	4
51-6099	Textile, Apparel, and Furnishings Workers, All Other	30	31	1	3.33%	2	2	0	4	7	3	5
51-7000	Woodworkers	2,667	2,768	101	3.79%	111	190	50	351			
51-7011	Cabinetmakers and Bench Carpenters	301	318	17	5.65%	14	17	8	39	7	3	4
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	1,528	1,583	55	3.60%	63	115	28	206	7	3	4
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	789	818	29	3.68%	31	56	14	101	7	3	4
51-8000	Plant and System Operators	4,262	4,264	2	0.05%	116	258	1	375			

*For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
51-8012	Power Distributors and Dispatchers	239	230	-9	-3.77%	6	14	-4	16	7	3	3
51-8013	Power Plant Operators	170	169	-1	-0.59%	4	10	0	14	7	3	3
51-8021	Stationary Engineers and Boiler Operators	466	475	9	1.93%	15	33	4	52	7	3	3
51-8031	Water and Wastewater Treatment Plant and System Operators	2,425	2,466	41	1.69%	70	130	20	220	7	3	3
51-8092	Gas Plant Operators	243	207	-36	-14.81%	5	17	-18	4	7	3	3
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	508	506	-2	-0.39%	12	38	-1	49	7	3	4
51-8099	Plant and System Operators, All Other	113	115	2	1.77%	2	8	1	11	7	3	4
51-9000	Other Production Occupations	33,502	34,968	1,466	4.38%	1,474	2,688	733	4,895			
51-9011	Chemical Equipment Operators and Tenders	576	606	30	5.21%	16	46	15	77	7	3	4
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	221	231	10	4.52%	6	18	5	29	7	3	4
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	422	435	13	3.08%	16	32	6	54	7	3	4
51-9022	Grinding and Polishing Workers, Hand	540	562	22	4.07%	20	42	11	73	8	3	4
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	1,164	1,245	81	6.96%	44	90	40	174	7	3	4
51-9031	Cutters and Trimmers, Hand	21	34	13	61.90%	1	2	6	9	8	3	5
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	844	884	40	4.74%	31	66	20	117	7	3	4
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	1,193	1,243	50	4.19%	47	98	25	170	7	3	4
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	414	428	14	3.38%	18	23	7	48	7	3	4
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	5,906	6,009	103	1.74%	248	456	52	756	7	3	4
51-9071	Jewelers and Precious Stone and Metal Workers	333	333	0	0.00%	20	14	0	34	7	3	3
51-9081	Dental Laboratory Technicians	230	249	19	8.26%	10	16	10	36	7	3	4
51-9082	Medical Appliance Technicians	96	101	5	5.21%	4	6	2	12	7	3	4
51-9083	Ophthalmic Laboratory Technicians	317	332	15	4.73%	14	22	8	44	7	3	4

For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
51-9111	Packaging and Filling Machine Operators and Tenders	3,547	3,686	139	3.92%	171	240	70	481	7	3	4
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	1,654	1,712	58	3.51%	48	126	29	203	7	3	4
51-9122	Painters, Transportation Equipment	818	854	36	4.40%	24	62	18	104	7	3	4
51-9123	Painting, Coating, and Decorating Workers	95	98	3	3.16%	3	7	2	12	8	3	4
51-9191	Adhesive Bonding Machine Operators and Tenders	326	324	-2	-0.61%	15	20	-1	34	7	3	4
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	158	161	3	1.90%	8	13	2	23	7	3	4
51-9193	Cooling and Freezing Equipment Operators and Tenders	595	618	23	3.87%	24	44	12	80	7	3	4
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	377	387	10	2.65%	14	24	5	43	7	3	3
51-9196	Paper Goods Machine Setters, Operators, and Tenders	1,856	1,899	43	2.32%	68	122	22	212	7	3	4
51-9198	Helpers--Production Workers	8,678	9,302	624	7.19%	482	856	312	1,650	7	3	5
51-9199	Production Workers, All Other	2,000	2,082	82	4.10%	80	149	41	270	7	3	4
53-0000	TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS	111,157	115,134	3,977	3.58%	5,386	7,902	1,988	15,276			
53-1000	Supervisors of Transportation and Material Moving Workers	4,412	4,574	162	3.67%	144	309	81	534			
53-1011	Aircraft Cargo Handling Supervisors	53	57	4	7.55%	2	4	2	8	7	2	6
53-1021	First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	1,402	1,451	49	3.50%	46	98	24	168	7	2	6
53-1031	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	2,051	2,131	80	3.90%	67	144	40	251	7	2	6
53-1048	First Line Supervisors of Other Transportation and Material Moving Workers	906	935	29	3.20%	30	64	14	108	7	2	6
53-2000	Air Transportation Workers	789	818	29	3.68%	23	50	14	87			

*For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
53-2012	Commercial Pilots	590	616	26	4.41%	17	38	13	68	7	3	4
53-2021	Air Traffic Controllers	112	113	1	0.89%	4	6	0	10	4	3	3
53-3000	Motor Vehicle Operators	55,746	57,544	1,798	3.23%	2,731	3,314	899	6,944			
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	49	50	1	2.04%	3	4	0	7	7	3	4
53-3021	Bus Drivers, Transit and Intercity	468	493	25	5.34%	38	20	12	70	7	3	4
53-3022	Bus Drivers, School or Special Client	6,249	6,285	36	0.58%	492	256	18	766	7	3	5
53-3031	Driver/Sales Workers	2,786	2,787	1	0.04%	118	175	0	293	7	3	5
53-3032	Heavy and Tractor-Trailer Truck Drivers	34,897	36,115	1,218	3.49%	1,506	2,230	609	4,345	5	3	5
53-3033	Light Truck or Delivery Services Drivers	6,952	7,276	324	4.66%	302	447	162	911	7	3	5
53-3041	Taxi Drivers and Chauffeurs	4,161	4,348	187	4.49%	252	172	94	518	8	3	5
53-3099	Motor Vehicle Operators, All Other	184	190	6	3.26%	22	10	3	35	8	3	5
53-4000	Rail Transportation Workers	807	804	-3	-0.37%	20	49	-2	67			
53-4011	Locomotive Engineers	308	296	-12	-3.90%	8	17	-6	19	7	2	4
53-4013	Rail Yard Engineers, Dinkey Operators, and Hostlers	67	76	9	13.43%	2	4	4	10	7	3	4
53-4021	Railroad Brake, Signal, and Switch Operators	102	112	10	9.80%	2	7	5	14	7	3	4
53-4031	Railroad Conductors and Yardmasters	257	255	-2	-0.78%	6	17	-1	22	7	3	4
53-5000	Water Transportation Workers	251	258	7	2.79%	10	18	4	32			
53-5011	Sailors and Marine Oilers	131	135	4	3.05%	6	10	2	18	8	3	4
53-6000	Other Transportation Workers	2,553	2,624	71	2.78%	140	232	36	408			
53-6011	Bridge and Lock Tenders	70	69	-1	-1.43%	3	5	0	8	7	3	5
53-6021	Parking Lot Attendants	424	432	8	1.89%	25	38	4	67	8	3	5
53-6031	Automotive and Watercraft Service Attendants	1,325	1,348	23	1.74%	72	146	12	230	8	3	5
53-6051	Transportation Inspectors	286	281	-5	-1.75%	10	17	-2	25	7	3	4
53-6061	Transportation Attendants, Except Flight Attendants	249	264	15	6.02%	22	12	8	42	7	3	5
53-7000	Material Moving Workers	46,599	48,512	1,913	4.11%	2,318	3,928	956	7,202			
53-7011	Conveyor Operators and Tenders	1,524	1,514	-10	-0.66%	75	126	-5	196	8	3	5
53-7021	Crane and Tower Operators	319	343	24	7.52%	11	23	12	46	7	2	4
53-7032	Excavating and Loading Machine and Dragline Operators	426	441	15	3.52%	16	31	8	55	7	2	4

For training codes, refer to page 94.

2018-2020 Arkansas Statewide Occupational Projections

Standard Occupational Classification		Employment		Change		Annual Separations		Annual Openings		Education/Training Codes		
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Education	Work Experience	Job Training
53-7041	Hoist and Winch Operators	73	83	10	13.70%	4	6	5	15	8	3	5
53-7051	Industrial Truck and Tractor Operators	7,133	7,404	271	3.80%	253	544	136	933	8	3	5
53-7061	Cleaners of Vehicles and Equipment	4,646	4,814	168	3.62%	244	410	84	738	8	3	5
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	24,440	25,576	1,136	4.65%	1,239	2,138	568	3,945	8	3	5
53-7063	Machine Feeders and Offbearers	2,415	2,479	64	2.65%	132	196	32	360	8	3	5
53-7064	Packers and Packers, Hand	3,722	3,882	160	4.30%	258	310	80	648	8	3	5
53-7072	Pump Operators, Except Wellhead Pumpers	30	31	1	3.33%	1	2	0	3	7	3	4
53-7081	Refuse and Recyclable Material Collectors	1,699	1,767	68	4.00%	78	126	34	238	8	3	5
53-7121	Tank Car, Truck, and Ship Loaders	29	32	3	10.34%	2	2	2	6	8	3	5
53-7199	Material Moving Workers, All Other	86	89	3	3.49%	4	6	2	12	8	3	5

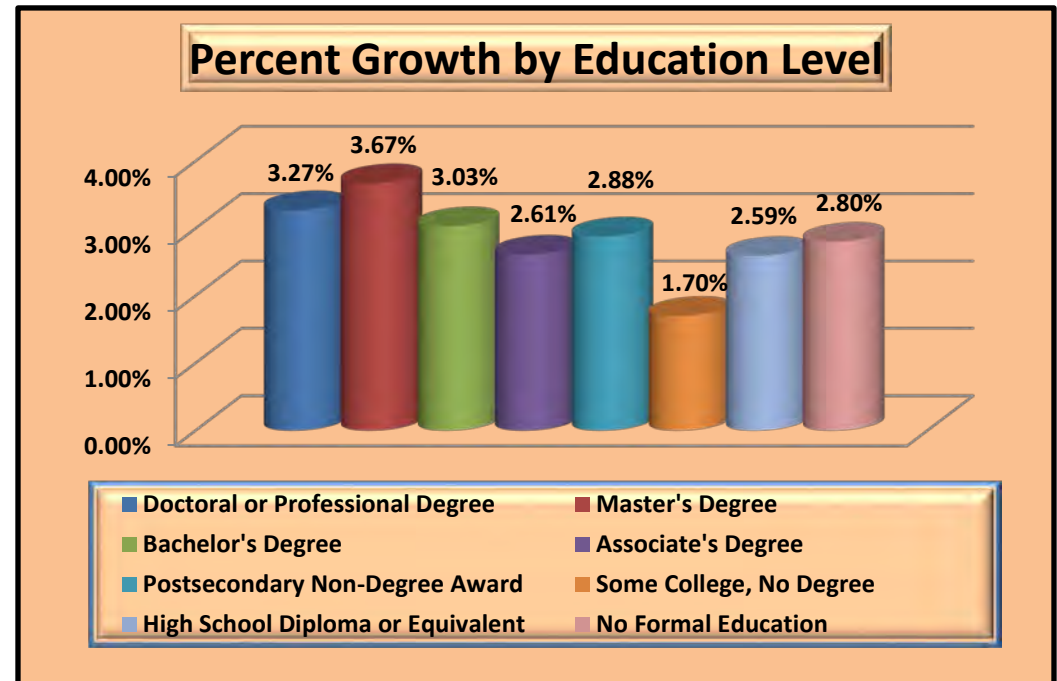
*For training codes, refer to page 94.

2018-2020 Projections by Education Level

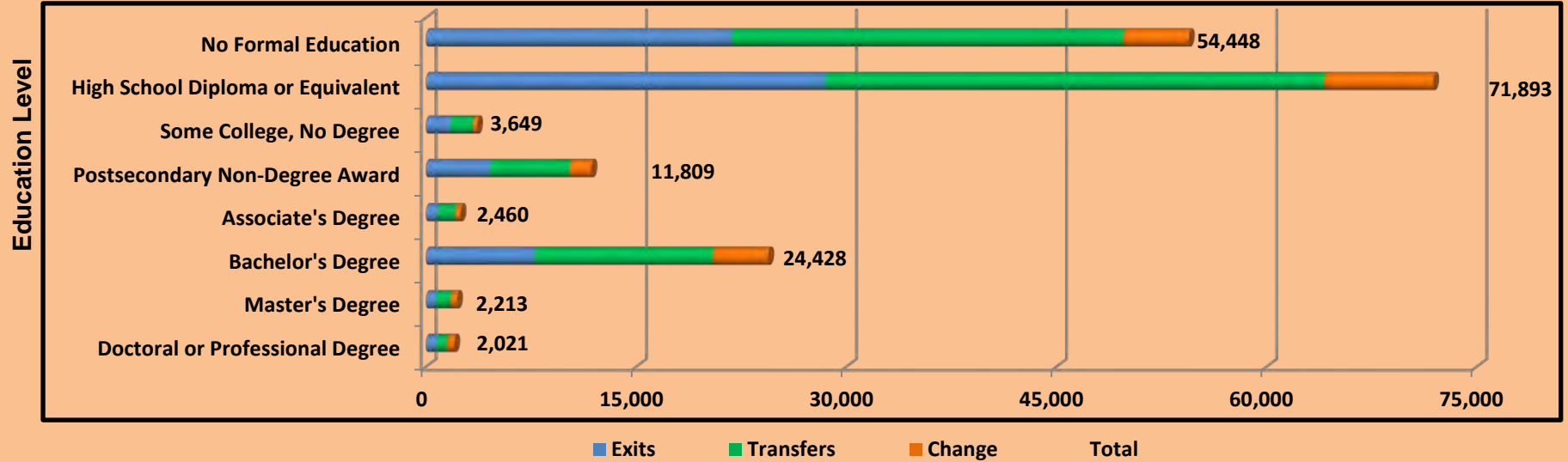
Education	2018 Estimated Employment	2020 Projected Employment	Numeric Change	Percent Change	Annual Exits	Annual Transfers	Annual Change	Total Annual Openings
Doctoral or Professional Degree	30,099	31,083	984	3.27%	771	760	490	2,021
Master's Degree	22,747	23,581	834	3.67%	732	1,064	417	2,213
Bachelor's Degree	259,058	266,909	7,851	3.03%	7,751	12,754	3,923	24,428
Associate's Degree	26,123	26,806	683	2.61%	861	1,260	339	2,460
Postsecondary Non-Degree Award	105,237	108,270	3,033	2.88%	4,564	5,727	1,518	11,809
Some College, No Degree	32,961	33,520	559	1.70%	1,768	1,602	279	3,649
High School Diploma or Equivalent	599,556	615,067	15,511	2.59%	28,488	35,653	7,752	71,893
No Formal Educational Credential	331,105	340,392	9,287	2.80%	21,853	27,949	4,646	54,448

Education Outlook

Every education category is projected to see positive net growth between 2018 and 2020. Occupations requiring a high school diploma or its equivalent are expected to add 15,511 new jobs and 71,894 annual job openings, while those that do not require formal education are estimated to add 9,287 jobs and have 54,448 annual job openings. At 3.67 percent, occupations requiring a Master's Degree are growing the fastest. Occupations requiring a college degree are forecast to add 10,352 jobs into the Arkansas job market and have a combined 31,122 annual openings.



Annual Openings by Education Level



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

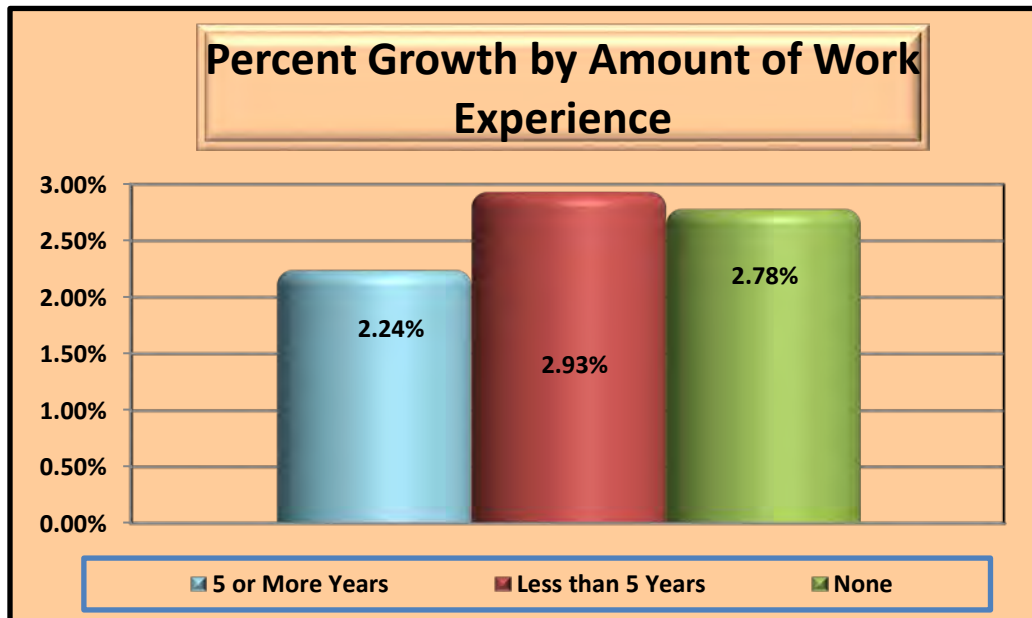
Standard Occupational Classification (SOC)		Employment		Change		Annual Openings				Education/Training Assignments	
Code	Title	2018 Estimated	2020 Projected	Numeric	Percent	Exits	Transfers	Change	Total	Work Experience	Job Training
Doctoral or Professional Degree											
29-1051	Pharmacists	3,725	3,832	107	2.87%	87	72	54	213	None	None
23-1011	Lawyers	3,512	3,590	78	2.22%	70	77	39	186	None	None
25-1071	Health Specialties Teachers, Postsecondary	1,799	1,876	77	4.28%	68	70	38	176	Less than 5 years	None
Master's Degree											
21-1012	Educational, Guidance, School, and Vocational Counselors	2,296	2,341	45	1.96%	86	152	22	260	None	None
25-9031	Instructional Coordinators	1,977	2,016	39	1.97%	95	82	20	197	5 years or more	None
11-9032	Education Administrators, Elementary and Secondary School	2,415	2,440	25	1.04%	68	110	12	190	5 years or more	None
Bachelor's Degree											
11-1021	General and Operations Managers	22,768	23,421	653	2.87%	478	1,378	326	2,182	5 years or more	None
29-1141	Registered Nurses	25,612	26,305	693	2.71%	743	564	346	1,653	None	None
21-2011	Clergy	8,376	8,858	482	5.75%	395	528	241	1,164	None	Moderate-term OJT
Associate's Degree											
25-2011	Preschool Teachers, Except Special Education	3,295	3,335	40	1.21%	143	177	20	340	None	None
23-2011	Paralegals and Legal Assistants	1,754	1,813	59	3.36%	59	118	30	207	None	None
15-1152	Computer Network Support Specialists	1,863	1,936	73	3.92%	38	98	36	172	None	None
Postsecondary Non-Degree Award/Some College, No Degree											
53-3032	Heavy and Tractor-Trailer Truck Drivers	34,897	36,115	1,218	3.49%	1,506	2,230	609	4,345	None	Short-term OJT
31-1014	Nursing Assistants	18,698	19,200	502	2.68%	1,151	958	251	2,360	None	None
43-3031	Bookkeeping, Accounting, and Auditing Clerks	15,921	16,169	248	1.56%	994	771	124	1,889	None	Moderate-term OJT
High School Diploma or Equivalent											
11-9013	Farmers, Ranchers, and Other Agricultural Managers	60,956	61,972	1,016	1.67%	3,593	912	508	5,013	5 years or more	None
43-9061	Office Clerks, General	30,291	30,760	469	1.55%	1,791	1,746	234	3,771	None	Short-term OJT
39-9021	Personal Care Aides	16,820	17,855	1,035	6.15%	1,384	1,042	518	2,944	None	Short-term OJT
No Formal Educational Credential											
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	34,473	36,026	1,553	4.50%	3,122	3,264	776	7,162	None	Short-term OJT
41-2011	Cashiers	38,022	37,649	-373	-0.98%	3,552	3,467	-186	6,833	None	Short-term OJT
41-2031	Retail Salespersons	39,975	40,303	328	0.82%	2,541	3,186	164	5,891	None	Short-term OJT

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 the 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.

2018-2020 Projections by Amount of Work Experience

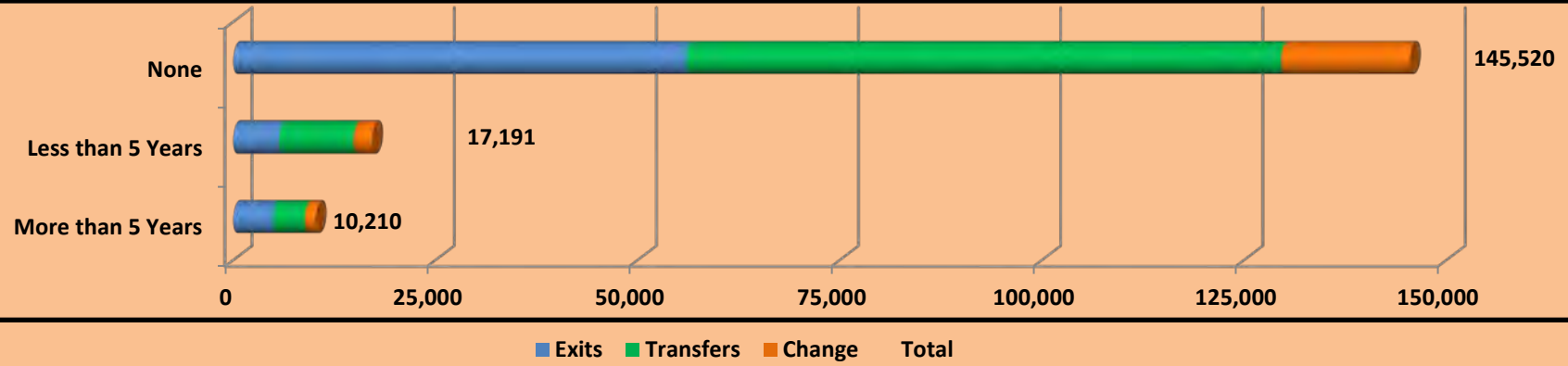
Work Experience	2018 Estimated Employment	2020 Projected Employment	Numeric Change	Percent Change	Annual Exits	Annual Transfers	Annual Change	Total Annual Openings
5 or More Years	115,501	118,092	2,591	2.24%	4,959	3,956	1,295	10,210
Less than 5 Years	151,849	156,297	4,448	2.93%	5,721	9,245	2,225	17,191
None	1,139,536	1,171,239	31,703	2.78%	56,108	73,568	15,844	145,520

Work Experience Outlook



Annual Openings by Amount of Work Experience

Amount of Work Experience

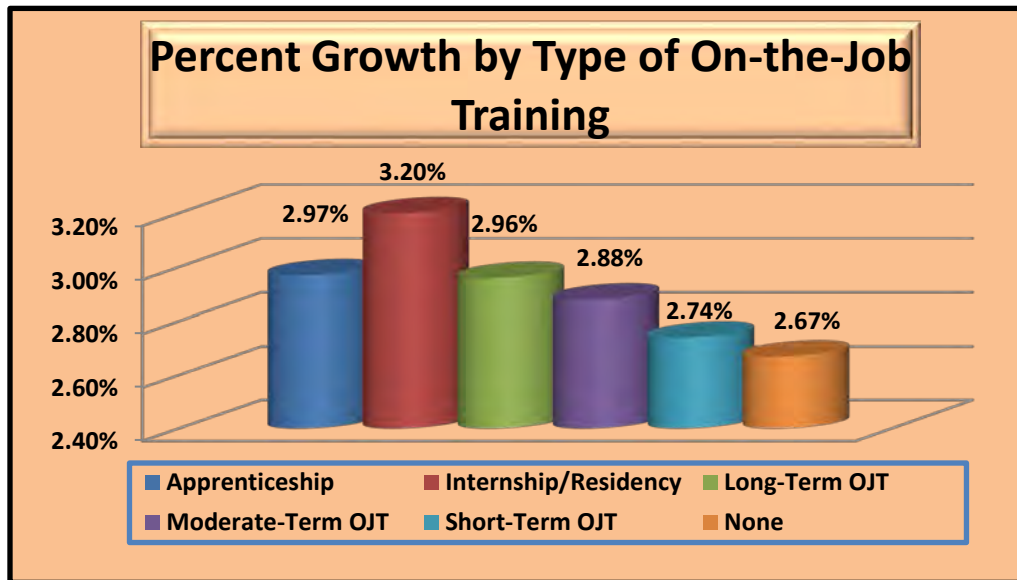


Another factor in determining full competency in an occupation is on-the-job training. Many occupations require additional training beyond formal education. Many jobs in education and in the medical field require internships or residency. Many skills-trade occupations recommend or require apprenticeship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

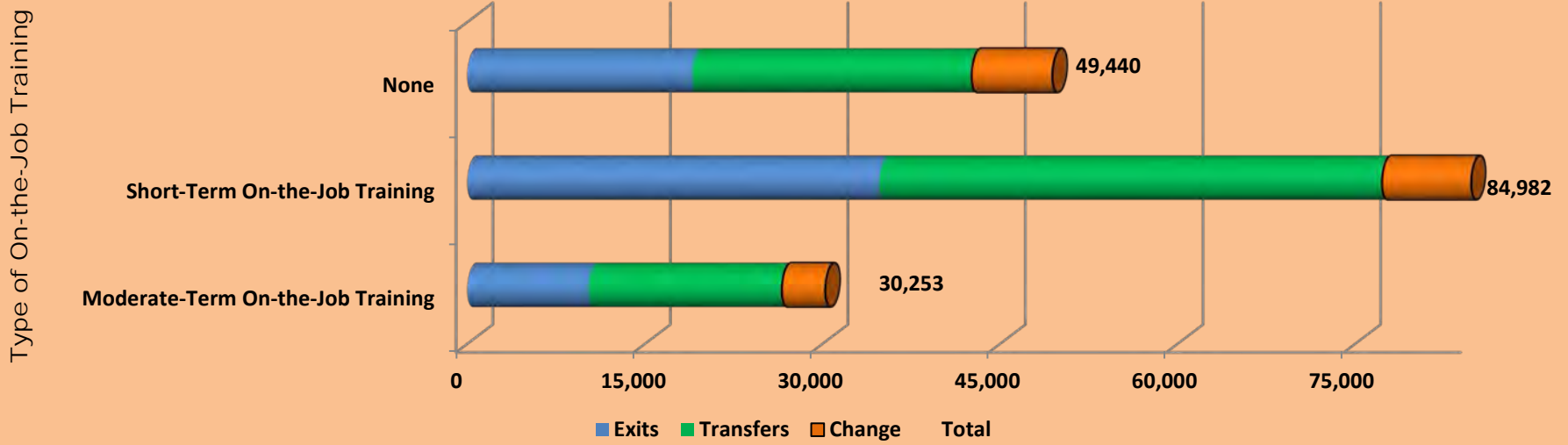
2017-2019 Projections by Type of On-the-Job Training

Work Experience	2018 Estimated Employment	2020 Projected Employment	Numeric Change	Percent Change	Annual Exits	Annual Transfers	Annual Change	Total Annual Openings
Apprenticeship	19,486	20,064	578	2.97%	679	1,294	288	2,261
Internship/Residency	14,488	14,952	464	3.20%	343	497	230	1,070
Long-Term On-the-Job Training	46,586	47,966	1,380	2.96%	1,550	2,677	688	4,915
Moderate-Term On-the-Job Training	254,142	261,469	7,327	2.88%	10,302	16,289	3,662	30,253
Short-Term On-the-Job Training	560,907	576,271	15,364	2.74%	34,858	42,437	7,687	84,982
None	511,277	524,906	13,629	2.67%	19,056	23,575	6,809	49,440

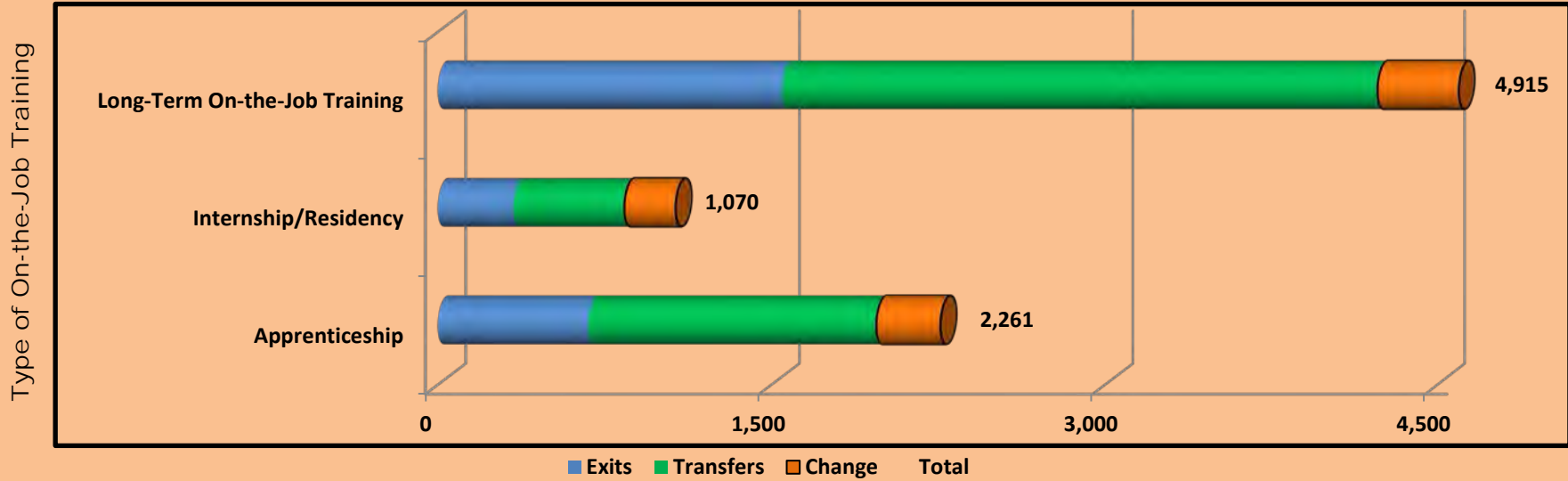
Training Outlook



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.

2018-2020 Projections by Education Training Path

Education	Work Experience	Additional Training	2018 Estimated Employment	2020 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	691	707	16	2.32%	14	14	8	36
Doctoral or Professional Degree	Less than 5 years	None	3,335	3,468	133	3.99%	125	130	66	321
Doctoral or Professional Degree	None	Internship/Residency	6,456	6,609	153	2.37%	104	93	73	270
Doctoral or Professional Degree	None	None	19,617	20,299	682	3.48%	528	523	343	1,394
Master's Degree	5 years or more	None	4,392	4,456	64	1.46%	163	192	32	387
Master's Degree	Less than 5 years	None	1,650	1,694	44	2.67%	47	76	22	145
Master's Degree	None	Internship/Residency	6,191	6,473	282	4.55%	188	331	143	662
Master's Degree	None	None	10,514	10,958	444	4.22%	334	465	220	1,019
Bachelor's Degree	5 years or more	None	40,908	42,190	1,282	3.13%	910	2,293	641	3,844
Bachelor's Degree	Less than 5 years	Moderate-Term On-the-Job Training	237	246	9	3.80%	5	9	5	19
Bachelor's Degree	Less than 5 years	None	41,410	43,027	1,617	3.90%	1,257	2,156	808	4,221
Bachelor's Degree	Less than 5 years	Short-Term On-the-Job Training	170	181	11	6.47%	6	10	6	22
Bachelor's Degree	None	Internship/Residency	1,841	1,870	29	1.58%	51	73	14	138
Bachelor's Degree	None	Long-Term On-the-Job Training	2,709	2,822	113	5.53%	90	110	57	257
Bachelor's Degree	None	Moderate-Term On-the-Job Training	29,538	30,592	1,054	3.57%	1,020	1,749	526	3,295
Bachelor's Degree	None	None	141,300	145,022	3,722	2.63%	4,383	6,304	1,859	12,546

Education	Work Experience	Additional Training	2018 Estimated Employment	2020 Projected Employment	Numeric Change	Percent Change	Annual Exits	Annual Transfers	Annual Change	Total Annual Openings
Bachelor's Degree	None	Short-Term On-the-Job Training	945	959	14	1.48%	29	50	7	86
Associate's Degree	Less than 5 years	None	769	790	21	2.73%	21	27	10	58
Associate's Degree	None	Long-Term On-the-Job Training	645	656	11	5.53%	35	44	5	84
Associate's Degree	None	Moderate-Term On-the-Job Training	1,850	1,895	45	2.43%	58	120	22	200
Associate's Degree	None	None	22,607	23,211	604	2.67%	740	1,054	301	2,095
Associate's Degree	None	Short-Term On-the-Job Training	252	254	2	0.79%	7	15	1	23
Postsecondary Non-Degree Award	5 years or more	Moderate-Term On-the-Job Training	40	41	1	2.50%	2	2	0	4
Postsecondary Non-Degree Award	Less than 5 years	Moderate-Term On-the-Job Training	1,050	1,070	20	1.90%	34	38	10	82
Postsecondary Non-Degree Award	Less than 5 years	None	322	332	10	3.11%	16	24	6	46
Postsecondary Non-Degree Award	Less than 5 years	Short-Term On-the-Job Training	806	821	15	1.86%	26	36	8	70
Postsecondary Non-Degree Award	None	Long-Term On-the-Job Training	7,190	7,419	229	5.53%	203	410	114	727
Postsecondary Non-Degree Award	None	Moderate-Term On-the-Job Training	1,826	1,811	-15	-0.82%	59	128	-7	180
Postsecondary Non-Degree Award	None	None	51,106	52,498	1,392	2.72%	2,461	2,372	697	5,530
Postsecondary Non-Degree Award	None	Short-Term On-the-Job Training	42,897	44,278	1,381	3.22%	1,763	2,717	690	5,170
Some College, No Degree	None	Long-term on-the-job training	63	63	0	0.00%	3	3	0	6
Some College, No Degree	None	Moderate-term on-the-job training	15,921	16,169	248	1.56%	994	771	124	1,889
Some College, No Degree	None	None	15,732	16,007	275	1.75%	729	748	137	1,614
Some College, No Degree	None	Short-term on-the-job training	1,245	1,281	36	2.89%	42	80	18	140

Education	Work Experience	Additional Training	2018 Estimated Employment	2020 Projected Employment	Numeric Change	Percent Change	Annual Exits	Annual Transfers	Annual Change	Total Annual Openings
High School Diploma or Equivalent	5 years or more	Long-Term On-the-Job Training	59	59	0	0.00%	4	4	0	8
High School Diploma or Equivalent	5 years or more	Moderate-Term On-the-Job Training	819	835	16	1.95%	40	47	8	95
High School Diploma or Equivalent	5 years or more	None	68,592	69,804	1,212	1.77%	3,826	1,404	606	5,836
High School Diploma or Equivalent	Less than 5 years	Long-Term On-the-Job Training	124	122	-2	5.53%	6	8	-1	13
High School Diploma or Equivalent	Less than 5 years	Moderate-Term On-the-Job Training	4,062	4,165	103	2.54%	132	185	52	369
High School Diploma or Equivalent	Less than 5 years	None	87,694	89,799	2,105	2.40%	3,440	5,715	1,051	10,206
High School Diploma or Equivalent	None	Apprenticeship	19,486	20,064	578	2.97%	679	1,294	288	2,261
High School Diploma or Equivalent	None	Long-Term On-the-Job Training	33,965	34,936	971	5.53%	1,114	1,975	485	3,574
High School Diploma or Equivalent	None	Moderate-Term On-the-Job Training	172,099	176,956	4,857	2.82%	6,693	11,201	2,426	20,321
High School Diploma or Equivalent	None	None	1,323	1,344	21	1.59%	76	92	10	178
High School Diploma or Equivalent	None	Short-Term On-the-Job Training	211,333	216,983	5,650	2.67%	12,478	13,728	2,827	29,033
No Formal Educational Credential	Less than 5 years	Moderate-Term On-the-Job Training	10,134	10,493	359	3.54%	604	825	180	1,609
No Formal Educational Credential	Less than 5 years	Short-Term On-the-Job Training	86	89	3	3.49%	2	6	2	10

Education	Work Experience	Additional Training	2018 Estimated Employment	2020 Projected Employment	Numeric Change	Percent Change	Annual Exits	Annual Transfers	Annual Change	Total Annual Openings
No Formal Educational Credential	None	Long-Term On-the-Job Training	1,831	1,889	58	5.53%	95	123	28	246
No Formal Educational Credential	None	Moderate-Term On-the-Job Training	16,566	17,196	630	3.80%	661	1,214	316	2,191
No Formal Educational Credential	None	None	6	7	1	16.67%	0	0	0	0
No Formal Educational Credential	None	Short-Term On-the-Job Training	302,482	310,718	8,236	2.72%	20,491	25,781	4,120	50,392

Top 15 Content Skills

(Learned capabilities that allow workers to master and perform the specific activities of their jobs)

Skills	Total Demand	Description
Active Listening	58,244	Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.
Speaking	57,063	Talking to others to convey information effectively.
Reading Comprehension	25,900	Understanding written sentences and paragraphs in work-related documents.
Social Perceptiveness	25,126	Being aware of others' reactions and understanding why they react as they do.
Monitoring	15,079	Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.
Service Orientation	14,903	Actively looking for ways to help people.
Writing	14,792	Communicating effectively in writing as appropriate for the needs of the audience.
Critical Thinking	14,713	Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
Coordination	13,149	Adjusting actions in relation to others' actions.
Instructing	11,621	Teaching others how to do something.
Judgment and Decision Making	9,951	Considering the relative costs and benefits of potential actions to choose the most appropriate one.
Learning Strategies	8,212	Selecting and using training/instructional methods and procedures appropriate for the situation when learning or teaching new things.
Repairing	4,972	Repairing machines or systems using the needed tools.
Equipment Maintenance	4,840	Performing routine maintenance on equipment and determining when and what kind of maintenance is needed.
Time Management	4,789	Managing one's own time and the time of others.

Top 15 Knowledge Domains

(Learned sets of facts and standards required by many work situations)

Knowledges	Total Demand	Description
Customer and Personal Service	124,017	Knowledge of principles and processes for providing customer and personal services. This includes customer needs assessment, meeting quality standards for services, and evaluation of customer satisfaction.
English Language	51,818	Knowledge of the structure and content of the English language, including the meaning and spelling of words, rules of composition, and grammar.
Administration and Management	27,532	Knowledge of business and management principles involved in strategic planning, resource allocation, human resources modeling, leadership technique, production methods, and coordination of people and resources.
Clerical	24,532	Knowledge of administrative and clerical procedures and systems such as word processing, managing files and records, stenography and transcription, designing forms, and other office procedures and terminology.
Education and Training	15,449	Knowledge of principles and methods for curriculum and training design, teaching and instruction for individuals and groups, and the measurement of training effects.
Psychology	12,717	Knowledge of human behavior and performance; individual differences in ability, personality, and interests; learning and motivation; psychological research methods; and the assessment and treatment of behavioral and affective disorders.
Sales and Marketing	12,585	Knowledge of principles and methods for showing, promoting, and selling products or services. This includes marketing strategy and tactics, product demonstration, sales techniques, and sales control systems.
Mechanical	11,814	Knowledge of machines and tools, including their designs, uses, repair, and maintenance.
Medicine and Dentistry	10,652	Knowledge of the information and techniques needed to diagnose and treat human injuries, diseases, and deformities. This includes symptoms, treatment alternatives, drug properties and interactions, and preventive health-care measures.
Building and Construction	9,488	Knowledge of materials, methods, and the tools involved in the construction or repair of houses, buildings, or other structures such as highways and roads.
Mathematics	8,396	Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.
Production and Processing	7,108	Knowledge of raw materials, production processes, quality control, costs, and other techniques for maximizing the effective manufacture and distribution of goods.
Computers and Electronics	6,878	Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.
Public Safety and Security	5,080	Knowledge of relevant equipment, policies, procedures, and strategies to promote effective local, state, or national security operations for the protection of people, data, property, and institutions.
Economics and Accounting	4,338	Knowledge of economic and accounting principles and practices, the financial markets, banking and the analysis and reporting of financial data.

Top 15 Generalized Work Activities

(Learned sets of facts and standards required by many work situations)

Generalized Work Activities	Total Demand	Description
Getting Information	172,179	Observing, receiving, and otherwise obtaining information from all relevant sources.
Communicating with Supervisors, Peers, or Subordinates	156,796	Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.
Making Decisions and Solving Problems	97,829	Analyzing information and evaluating results to choose the best solution and solve problems.
Interacting With Computers	89,523	Using computers and computer systems (including hardware and software) to program, write software, set up functions, enter data, or process information.
Performing for or Working Directly with the Public	87,185	Performing for people or dealing directly with the public. This includes serving customers in restaurants and stores, and receiving clients or guests.
Organizing, Planning, and Prioritizing Work	71,864	Developing specific goals and plans to prioritize, organize, and accomplish your work.
Documenting/Recording Information	66,229	Entering, transcribing, recording, storing, or maintaining information in written or electronic/magnetic form.
Identifying Objects, Actions, and Events	59,173	Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events.
Establishing and Maintaining Interpersonal Relationships	57,378	Developing constructive and cooperative working relationships with others, and maintaining them over time.
Updating and Using Relevant Knowledge	51,344	Keeping up-to-date technically and applying new knowledge to your job.
Assisting and Caring for Others	42,045	Providing personal assistance, medical attention, emotional support, or other personal care to others such as coworkers, customers, or patients.
Monitor Processes, Materials, or Surroundings	37,217	Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems.
Performing General Physical Activities	37,209	Performing physical activities that require considerable use of your arms and legs and moving your whole body, such as climbing, lifting, balancing, walking, stooping, and handling of materials.
Evaluating Information to Determine Compliance with Standards	36,981	Using relevant information and individual judgment to determine whether events or processes comply with laws, regulations, or standards.
Inspecting Equipment, Structures, or Material	35,891	Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.

Appendix: Definition of Education/Training Codes

Education Code	Type of Education	Definition
1	Doctoral or Professional Degree	Requires at least three years of full-time academic study beyond a Bachelor's Degree.
2	Master's Degree	Requires one or two years of full-time academic study beyond a Bachelor's Degree.
3	Bachelor's Degree	Requires four to five years of full-time academic study beyond high school.
4	Associate's Degree	Requires at least two years of full-time academic study beyond high school.
5	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.
6	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.
7	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.
8	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
1	5 or More Years
2	Less than 5 Years
3	None

Job Training Code	Type of Training	Definition
1	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.
2	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.
3	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.
4	Moderate-Term On-the-Job Training	Requires 1 to 12 months of a combination of on-the-job experience and informal training.
5	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.
6	None	No additional training or preparation required.

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