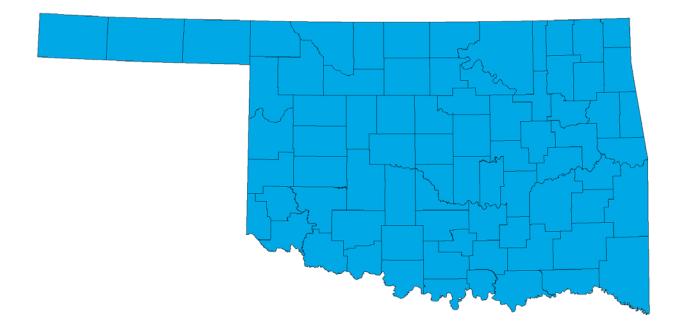
## **STATE OF OKLAHOMA**



# 2023 WORKFORCE BRIEFING

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#### Introduction

The State of Oklahoma is home to nearly four million people and is made up of 77 counties including five Metropolitan Statistical Areas (MSAs), and four Nonmetropolitan Statistical Areas. Employers in the state face an ever-increasing need for highly skilled capable workers. The purpose of this briefing is to examine the current and projected future status of the state, its residents, and workforce. The following briefing reviews the population, education, labor force, top industries by total jobs, and staffing patterns for target and complementary sectors in the State of Oklahoma.

#### **Population**

Between 2017 and 2022, the state grew by approximately 1.9 percent, from 3,896,251 to 3,970,497 people, adding 74,246 people. Between 2020 and 2030, the state is projected to grow by 3.4 percent to 4,094,815, adding 135,462 people.

#### Population by Metropolitan and Nonmetropolitan Area

Oklahoma has five Metropolitan Statistical Areas (MSAs): Oklahoma City, Tulsa, Lawton, Enid, and Fort Smith (part), along with four Nonmetropolitan Areas: Northeast, Southeast, Northwest, and Southwest. Each of these vary in terms of population and growth, among other factors. Figure 1 shows the population of each MSA and Nonmetropolitan Area as a percentage of the state's population. In 2022, the Oklahoma City MSA made up the largest percentage of the state's population at 36 percent. The Tulsa MSA made up the next largest percentage of the population at 26 percent. Enid and Ft. Smith MSAs population each made up 2 percent of the state's population, representing the smallest MSA by population in the state.

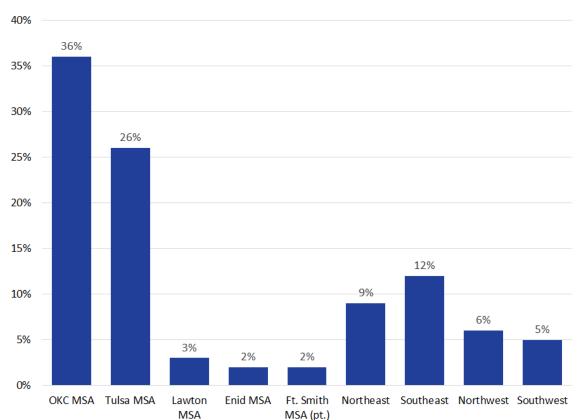


Figure 1: Population by Metropolitan and Nonmetropolitan Area

SOURCE: U.S. Census Bureau. American Community Survey, ACS 5-Year Estimates.

Table 1 provides the change in population by Oklahoma MSAs and Nonmetropolitan Areas from 2017 to 2022. During this period, three MSAs gained population while all Nonmetro areas lost population. The Oklahoma City MSA had the most population growth adding 77,888 people (5.6 percent), followed by the Tulsa MSA adding 42,793 people (4.3 percent). The Northeast area saw the largest loss of population decreasing 10,691 people (-2.9 percent), followed by the Southwest area losing 7,095 people (-3.7 percent).

Table 1: Population by Metropolitan and Nonmetropolitan Area

Area	2017 Population	2022 Population	Total Change	Percent Change
Enid MSA	62,421	62,456	35	0.1%
Lawton MSA	129,066	127,314	-1,752	-1.4%
Oklahoma City MSA	1,353,504	1,428,923	75,419	5.6%
Tulsa MSA	977,869	1,017,724	39,855	4.1%
Ft. Smith MSA (pt.) MSA	91,224	88,063	-3,161	-3.5%
Northeast	363,455	351,022	-12,433	-3.4%
Southeast	467,541	458,769	-8,772	-1.9%
Northwest	252,679	247,452	-5,227	-2.1%
Southwest	198,492	188,774	-9,718	-4.9%
Total	3,896,251	3,970,497	74,246	1.9%

SOURCE: U.S. Census Bureau. American Community Survey, ACS 5-Year Estimates.

Table 2 shows the projected population change from 2020 to 2030 by Oklahoma MSAs and Nonmetropolitan Areas. During this period, all but two of Oklahoma's MSAs and Nonmetro areas are projected to grow in population. The Oklahoma City MSA is projected to have the largest increase in population at 88,381 (6.2 percent) additional people by 2030. The Tulsa MSA is projected to add the second largest number of people at 21,164 (2.1 percent). Populations in the Lawton MSA and the Southwest area are projected to decline by a combined 5,603 people (-1.8 percent).

Table 2: Projected Population by Metropolitan and Nonmetropolitan Area

	2020	2030	Total	Percent
Area	Population	Population	Change	Change
Enid MSA	62,846	63,096	250	0.4%
Lawton MSA	126,652	121,358	-5,294	-4.2%
Oklahoma City MSA	1,425,695	1,514,076	88,381	6.2%
Tulsa MSA	1,015,331	1,036,495	21,164	2.1%
Ft. Smith MSA (pt.)	87,410	89,130	1,720	2.0%
Northeast	348,773	357,540	8,767	2.5%
Southeast	456,819	471,199	14,380	3.1%
Northwest	247,167	253,570	6,403	2.6%
Southwest	188,660	188,351	-309	-0.2%
Total	3,959,353	4,094,815	135,462	3.4%

Source: Oklahoma Department of Commerce, Oklahoma Population Projections 2020-2070, March 2023.

#### Population by County

Tables 3 and 4 in the Appendix show Oklahoma's population change between 2017 and 2022 for each county. In 2022, Oklahoma County had the largest population of all counties in Oklahoma at 802,559, representing 20 percent of the state's population. Tulsa County had the second largest population at 677,358, around 17 percent of the population. Cimarron County was the least populated county representing 0.1 percent of the state population with 2,252 residents.

#### Population by Age

Figure 2 below shows the population by age in Oklahoma. In 2022, the 15- to 24- and 5- to 14-year old age groups represented the largest age groups in Oklahoma at 14.1 percent and 13.6 percent respectively. The next largest age group was the 25- to 34-year old age group at 13.5 percent. Those aged 85 and over represent the smallest age group in Oklahoma at 1.7 percent.

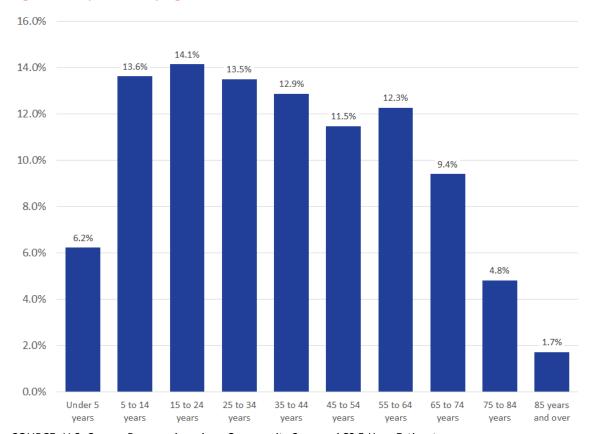


Figure 2: Population by Age

SOURCE: U.S. Census Bureau. American Community Survey, ACS 5-Year Estimates.

Table 5, on the next page, provides the population change by age group from 2017 to 2022. During this period, most age groups grew in population. In particular, all groups over 65 increased while various younger groups declined. 65 to 74 year olds added the most people at 41,019 (12.4 percent), followed by 35- to 44-year olds adding 33,787 (7.1 percent). The 85 years and Older age group grew the least at just 1,839 (2.8 percent) more people. Alternatively, 45- to 54-year-olds experienced the largest decline at 27,328 (-5.7 percent) fewer people.

Table 5: Population by Age

	2017	2022		Percent
Age	Population	Population	Change	Change
Under 5 years	265,113	247,466	-17,647	-6.7%
5 to 14 years	535,006	540,595	5,589	1.0%
15 to 24 years	542,644	561,161	18,517	3.4%
25 to 34 years	538,527	535,728	-2,799	-0.5%
35 to 44 years	477,005	510,792	33,787	7.1%
45 to 54 years	482,765	455,437	-27,328	-5.7%
55 to 64 years	480,861	486,567	5,706	1.2%
65 to 74 years	331,975	372,994	41,019	12.4%
75 to 84 years	175,838	191,401	15,563	8.9%
85 years and over	66,517	68,356	1,839	2.8%
Total	3,896,251	3,970,497	74,246	1.9%

SOURCE: U.S. Census Bureau. American Community Survey, ACS 5-Year Estimates.

#### Population by Race and Ethnicity

The following analyses uses the racial and ethnicity categories designated by the U.S. Census Bureau which categorizes "Hispanic Origin" as an ethnicity rather than a race. People who identify as Hispanic, Latino, or Spanish may be any race. As such, Hispanic is always reported in conjunction with another racial designator, i.e., "Black or African American, Hispanic." Unless otherwise noted, individual races included in this briefing section were reported as non-Hispanic.

Figure 3 summarizes the Oklahoma population by race and ethnicity in 2020. White made up the largest percentage of the population at 60.8 percent. Those of Hispanic Ethnicity with Any Race were the second largest percentage of the population at 11.9 percent. Native Hawaiians or Pacific Islanders were the smallest percentage of the population at 0.2 percent.

Figure 3: Population by Race and Ethnicity

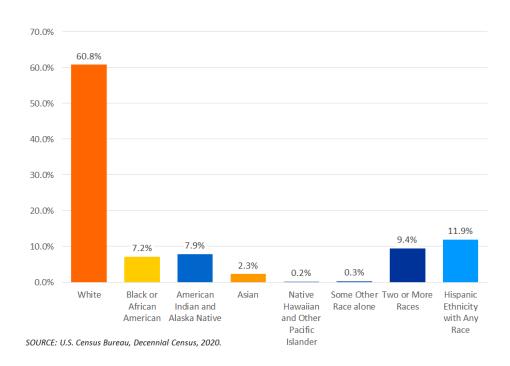


Table 6 provides the population change by demographic group from 2017 to 2022. During this period, most demographic groups grew in population. Hispanic Ethnicity with Any Race and Two or More Races added the most population during this period at 63,807 (16.2 percent) and 50,706 (18.9 percent) (16.5 percent) additional people by 2022, respectively. Alternatively, American Indian and Alaska Native added the least in total population during this period at 1,295 (0.5 percent) additional people. White and Black or African American were the only groups estimated to decline in population during this period.

Table 6: Population by Race and Ethnicity

Demographic	2017	2022	Total	Percent
Demographic	Population	Population	Change	Change
White	2,589,210	2,529,927	-59,283	-2.3%
Black or African American	278,887	277,702	-1,185	-0.4%
American Indian and Alaska Native	276,650	277,945	1,295	0.5%
Asian	79,316	90,666	11,350	14.3%
Native Hawaiian and Other Pacific Islander	5,158	6,210	1,052	20.4%
Some Other Race	3,864	10,368	6,504	168.3%
Two or More Races	268,287	318,993	50,706	18.9%
Hispanic Ethnicity with Any Race	394,879	458,686	63,807	16.2%
Total	3,896,251	3,970,497	74,246	1.9%

SOURCE: U.S. Census Bureau. American Community Survey, ACS 5-Year Estimates.

#### Education

Colleges, universities, career technology centers, and K-12 schools are instrumental in developing the workforce. Educational institutions help supply local businesses and organizations with a workforce with the necessary education and skills to be competitive in today's economy. The following section reviews Oklahoma's educational attainment and provides an educational attainment mismatch analysis, and details the State's educational assets.

#### **Educational Attainment**

Figure 4 compares Oklahoma's educational attainment levels with the United States educational attainment levels in 2022. In Oklahoma, High School Graduate made up the largest share of the population at 26.1 percent. This was 4.5 percentage points higher than the U.S. average of 26.1 percent. The second largest share of the population was Some College at 22.1 percent. Those with less than 9th grade educational attainment represented the smallest group at 3.5 percent, 1.2 percentage point below the national average.

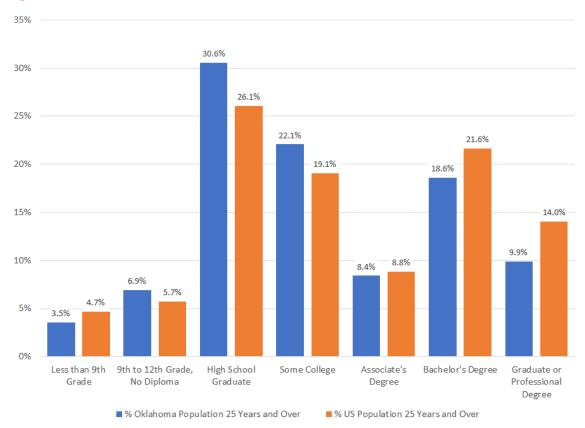


Figure 4: Educational Attainment

SOURCE: U.S. Census Bureau. American Community Survey, ACS 1-Year Estimates.

Table 9 provides the change in educational attainment levels in Oklahoma from 2017 to 2022. By 2022, fewer people had an education below the High School Diploma level while more people achieved higher levels of education than in 2017. In particular, those with a Bachelor's Degree grew the most during this period at 58,224 more people. Those with a Graduate or Professional Degree were next at an additional 40,157 people by 2022. Alternatively, a combined 31,146 fewer people had an education below the High School Diploma level by 2022.

Table 7: Educational Attainment

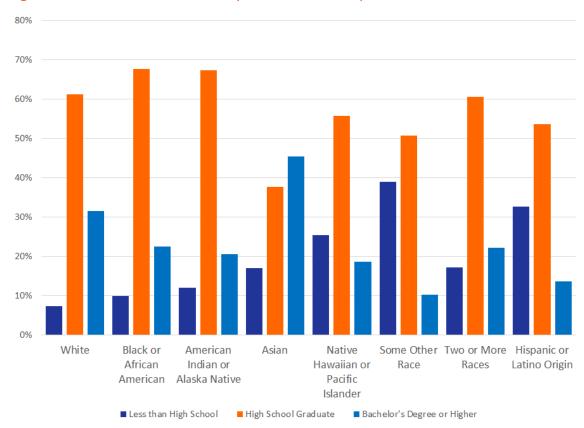
Educational	2017	2022		Percent
Attainment	Population	Population	<b>Total Change</b>	Change
Less than 9th Grade	104,975	94,433	-10,542	-10.0%
9th to 12th Grade, No Diploma	204,039	183,435	-20,604	-10.1%
High School Graduate	804,245	813,545	9,300	1.2%
Some College	603,902	587,170	-16,732	-2.8%
Associate's Degree	208,717	223,641	14,924	7.2%
Bachelor's Degree	437,243	495,467	58,224	13.3%
Graduate or Professional Degree	223,293	263,450	40,157	18.0%
Total	2,586,414	2,661,141	74,727	2.9%

SOURCE: U.S. Census Bureau. American Community Survey, ACS 5-Year Estimates.

#### Educational Attainment by Race and Ethnicity

Figure 5 shows Oklahoma's education attainment levels by race and ethnicity in 2022. Across almost all racial and ethnic groups, High School Degree represented the largest percentage of the respective population groups. Some Other Race had the largest population percentage at the Less Than High School level at 39.0 percent. Black or African American and American Indian or Alaska Native had the largest population percentage at the High School Degree level at over 67.0 percent. Asian Americans had the largest population percentage at the Bachelor's Degree or Higher level at 45.4 percent.

Figure 5: Educational Attainment by Race and Ethnicity



SOURCE: U.S. Census Bureau. American Community Survey, ACS 5-Year Estimates.

#### **Educational Attainment Mismatch**

Figure 6 below shows an educational attainment mismatch analysis for the State of Oklahoma.<sup>1</sup> This compares the typical education required for jobs to the educational attainment of the population in 2022. In 2022, approximately 23.3 percent of jobs in Oklahoma required no formal education while just 10.4 percent of the population have an education at this level. This suggests that many of these jobs may be filled by those with an education level beyond what is required. At the High School Diploma level, 39.9 percent of jobs in Oklahoma require this level of education while 30.6 percent of the population hold this level of education. The percent of population with Some College or an Associate's Degree was 30.5 percent, while just 11.9 percent of jobs required these levels of education, suggesting underemployment. This is similar for those with a Graduate Degree or Higher, where 9.9 percent of the population is prepared for 4.3 percent of the jobs in the market. At the Bachelor's Degree level, 18.6 percent of the population have the degree while 20.6 percent of jobs require it.

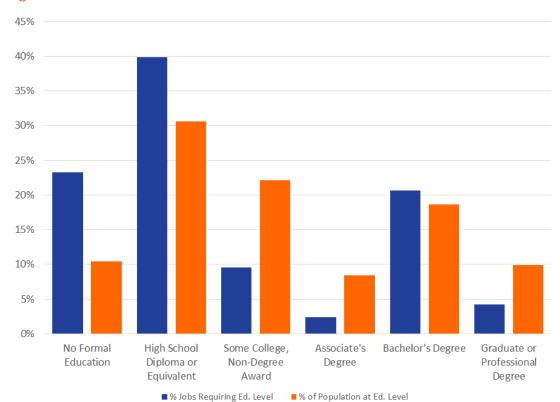


Figure 6: Educational Attainment Mismatch

#### **Educational Assets**

Oklahoma has over 120 distinct post-secondary educational institutions, ranging from universities, technical colleges, community colleges, and specialty training schools. These institutions are important educational and professional assets as they help connect students of all backgrounds and circumstances with resources, degrees, certifications, and higher knowledge. Table 8 in the Appendix details accredited institutions and their programs of study.

<sup>&</sup>lt;sup>1</sup> The educational attainment mismatch analysis, formerly known as skills gaps analysis, is attained by comparing the working age (25 years and older) population's educational attainment and typical entry level education for the total number of jobs. The analysis does not account for individuals' actual educational attainment and their current employment. The analysis compares American Community Survey data from the Census Bureau with occupation data from OESC's Economic Research and Analysis Division and Bureau of Labor Statistics.

#### **Labor Force**

The labor force may be considered one of the foremost assets of a particular region, providing key goods and services, collaborating across industries, and participating in economic and skills development. The following section reviews Oklahoma's current labor force and commuter data, including labor force participation rates broken down by workforce development area and county, median earnings, as well as commuter data detailing commuter inflow, outflow, and circulation for the state.

#### Labor Force Participation by County

Table 9 in the Appendix shows the estimated Oklahoma labor force participation rate by county in 2021 and 2022. In 2022, Canadian County had the highest participation rate of 68.2 percent. Custer, Texas, and Tulsa Counties had the next highest labor force participation rates, at or above 65.0 percent. These were all well above the state labor force participation rate of 60.5 percent. Conversely, McIntosh, Hughes, and Okfuskee Counties had the lowest labor force participation rates of 41.7 percent, 41.9 percent, and 44.2 percent, respectively.

Between 2021 and 2022, the labor force participation rate of Oklahoma counties increased in 33 counties, declined in 42 counties, and was unchanged in 2 counties. This reflects the overall 0.3 percent increase in labor force participation at the state level during this period. Texas County experienced the greatest decrease in labor force participation at -4.1 percentage points from 2021 to 2022. Grant County experienced the next largest decrease in labor force participation at -2.4 percentage points. Conversely, Caddo, Love, and Woodward Counties experienced the greatest increase in labor force participation at 2.5 percent, 2.2 percent, and 2.0 percentage points, respectively.

#### Median Earnings

Table 10 located in the Appendix provides the median earnings of those over the age of 16 in 2022. The median earnings for the State of Oklahoma were \$37,013. The highest median earnings were found in Major County at \$44,544, over \$7,500 more than median earnings at the state level. The second highest were in Canadian County at \$44,274. The lowest median earnings in Oklahoma were in Payne County at \$25,107. This was nearly \$12,000 lower than the state level.

#### **Commuter Data**

The U.S. Census Bureau Longitudinal Employer-Household Dynamics (LEHD) program uses data from a variety of sources including the unemployment insurance program, Quarterly Census of Employment and Wages (QCEW), and administrative data from censuses and surveys to create models estimating worker commutes for primary employment. In 2021, 47,043 worked in the State of Oklahoma and did not live there, 1,422,862 lived and worked in-state, and 44,627 lived in Oklahoma and worked outside the state. See Figure 7 below.

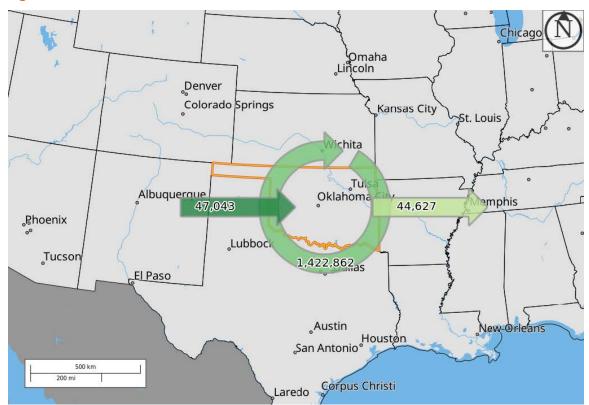


Figure 7: Commuter Patterns

Source: U.S. Census Bureau, Longitudinal-Employer Household Dynamics Program (LEHD), 2022, https://onthemap.ces.census.gov.

#### Top Industries by Total Jobs

The North American Industry Classification System (NAICS) is the standard utilized by federal agencies to classify businesses to collect, analyze, and publish statistical data related to the United States business economy. Several of the analyses that follow are based upon data using NAICS employment sector codes. The following information is provided to enhance understanding of the framework of these analyses.

NAICS uses a 6-digit coding system which is structured hierarchically, beginning with 20 broad economic sectors. Over 1,000 industries are then sub-categorized within these 20 sectors. Each industry within a sector shares distinguishing economic activities. The most recent version of the classification system was implemented in 2017. Additional information is available at <a href="https://www.census.gov/eos/www/naics">www.census.gov/eos/www/naics</a>.

Table 11 below shows the top ten industries in Oklahoma by the total number of jobs in 2022. There was an estimated 1,624,905 total jobs in Oklahoma in 2022. The largest sector was Government with 320,300 jobs. The second largest sector was Health Care and Social Assistance with 200,924 jobs. The tenth largest sector was Finance and Insurance with 56,945 jobs. Together, these industries made up 85.1 percent of the total jobs in Oklahoma in 2022.

Table 11: Top Industries by Total Jobs

NAICS Code	Industry Description	2022 Jobs	Percentage of Total Employment
90	Government	320,300	19.7%
62	Health Care and Social Assistance	200,924	12.4%
44	Retail Trade	184,558	11.4%
72	Accommodation and Food Services	155,052	9.5%
31	Manufacturing	133,260	8.2%
56	Administrative and Support and Waste Management and Remediation Services	102,730	6.3%
54	Professional, Scientific, and Technical Services	80,356	4.9%
23	Construction	79,774	4.9%
48	Transportation and Warehousing	68,250	4.2%
52	Finance and Insurance	56,945	3.5%

SOURCE: Quarterly Census of Employment and Wages (QCEW), Bureau of Labor Statistics.

#### **Key Sectors**

This section will provide both data and analysis of key industries and occupations in Oklahoma using official labor market statistics from the Oklahoma Employment Security Commission (OESC), the U.S. Bureau of Labor Statistics (BLS), and the Census Bureau.

It is well understood that some industries are more heavily concentrated in some geographic areas than in others as individual firms have realized advantages in being close to competitors, customers, supply chain sources, etc. Knowing this policy makers can profit by understanding the long-standing (and perhaps even the emerging) economic geography of their state and substate regions. Using location quotients, we can identify those industries and occupation that already exist and are thriving within our state.

Utilizing 4-digit NAICS codes we have identified industries with at least 500 employees within the private and federal government sectors that have an employment concentration that is at least twice that of the nation. Table 12 in the Appendix outlines the top 4-digit NAICS industries in Oklahoma based on location quotients.

#### **Key Occupations**

Table 13 in the Appendix shows similar employment concentration data but from an occupational perspective. Here we are illustrating occupations that have LQs of at least 3.0 and at least 100 employees.

#### Long Term Industry and Occupational Employment Projections

Next, we transition to looking at the industry and occupational projections produced by the OESC's Economic Research & Analysis division in partnership with the U.S. Department of Labor (see Table 14 and Table 15 in the Appendix). These data products are produced every-other year in accordance with national standards. They provide labor market participants with an informed guide of how current trends may play out over the next decade.

#### Summary

This state briefing reviewed Oklahoma's population, educational attainment and assets, labor force information, top industry data, and target sectors. The Oklahoma Employment Security Commission prepares briefings for each of Oklahoma's Metropolitan Statistical Areas (MSAs) and Nonmetropolitan Areas.

## County Level Tables

Table 3: Population by County

County	Population 2017	Population 2022	Total Change	Percent Change
Adair County	22,119		-2,543	-11.5%
Alfalfa County	5,913		-276	
Atoka County	13,779		483	3.5%
Beaver County	5,364		-348	
Beckham County	21,779		230	1.1%
Blaine County	9,512		-1,103	
•	46,481	,		
Bryan County		48,182	1,701	3.7%
Caddo County	29,356		-3,158	
Canadian County	140,001	169,149	29,148	
Carter County	48,273		237	0.5%
Cherokee County	48,891	48,098	-793	-1.6%
Choctaw County	14,804	·	-446	
Cimarron County	2,152		100	4.6%
Cleveland County	279,542		20,045	
Coal County	5,630		-317	-5.6%
Comanche County	121,786	123,046	1,260	1.0%
Cotton County	5,863	5,477	-386	-6.6%
Craig County	14,332	14,123	-209	-1.5%
Creek County	71,890	72,699	809	1.1%
Custer County	28,974	27,886	-1,088	-3.8%
Delaware County	42,672	41,413	-1,259	-3.0%
Dewey County	4,899	4,401	-498	-10.2%
Ellis County	3,970	3,657	-313	-7.9%
Garfield County	61,600	61,920	320	0.5%
Garvin County	27,857	25,713	-2,144	-7.7%
Grady County	54,829	56,658	1,829	3.3%
Grant County	4,379	4,124	-255	-5.8%
Greer County	5,793		-246	
Harmon County	2,710		-282	
Harper County	3,784	3,129	-655	
Haskell County	12,726		-1,085	-8.5%
Hughes County	13,265		142	1.1%
Jackson County	25,112		-556	
Jefferson County	6,164		-775	
Johnston County	11,121	10,406	-715	
Kay County	44,403		-735	
Kingfisher County	15,688		-395	

Table 3: Population by County (continued)

County	Population	Population	<b>Total Change</b>	Percent Change
	2017	2022		
Kiowa County	8,849	8,345	-504	-5.7%
Latimer County	10,318	9,630	-688	-6.7%
Le Flore County	50,020	48,907	-1,113	-2.2%
Lincoln County	34,961	34,188	-773	-2.2%
Logan County	46,785	51,933	5,148	11.0%
Love County	10,076	10,218	142	1.4%
Major County	39,306	45,306	6,000	15.3%
Marshall County	33,031	30,931	-2,100	-6.4%
Mayes County	19,701	19,451	-250	-1.3%
McClain County	7,684	7,502	-182	-2.4%
McCurtain County	16,364	15,882	-482	-2.9%
McIntosh County	40,988	39,589	-1,399	-3.4%
Murray County	13,918	13,672	-246	-1.8%
Muskogee County	69,027	66,354	-2,673	-3.9%
Noble County	11,303	10,896	-407	-3.6%
Nowata County	10,322	9,483	-839	-8.1%
Okfuskee County	12,076	11,134	-942	-7.8%
Oklahoma County	786,068	802,559	16,491	2.1%
Okmulgee County	38,819	36,990	-1,829	-4.7%
Osage County	47,346	45,839	-1,507	-3.2%
Ottawa County	31,368	30,338	-1,030	-3.3%
Pawnee County	16,419	15,757	-662	-4.0%
Payne County	81,908	82,794	886	1.1%
Pittsburg County	44,154	43,613	-541	-1.2%
Pontotoc County	38,371	38,141	-230	-0.6%
Pottawatomie County	72,185	73,533	1,348	1.9%
Pushmataha County	11,118	10,769	-349	-3.1%
Roger Mills County	3,661	3,320	-341	-9.3%
Rogers County	91,435	98,836	7,401	8.1%
Seminole County	24,845	23,351	-1,494	-6.0%
Sequoyah County	41,742	39,667	-2,075	-5.0%
Stephens County	43,340	43,710	370	0.9%
Texas County	20,924	20,495	-429	-2.1%
Tillman County	7,399	6,977	-422	-5.7%
Tulsa County	646,437	677,358	30,921	4.8%
Wagoner County	78,984	86,644	7,660	9.7%
Washington County	51,996	53,242	1,246	2.4%
Washita County	11,055		-323	-2.9%
Woods County	9,069	8,587	-482	-5.3%
Woodward County	20,531	19,990	-541	-2.6%
Total	3,931,316	4,019,800	88,484	2.3%

SOURCE: U.S. Census Bureau. American Community Survey, ACS 1-Year Estimates.

Table 4: Projected Population by County

County	Population	Population 2030	Total Change	Percent Change
Adair County	<b>2020</b> 19,495	21,410	1,915	9.8%
Alfalfa County	5,699	6,047	348	
Atoka County	14,143	13,158	-985	
Beaver County	5,049	5,211	162	3.2%
Beckham County	22,410	22,188	-222	-1.0%
Blaine County	8,735	8,137	-598 F 170	
Bryan County Caddo County	46,067 26,945	51,246 28,541	5,179 1,596	
		,		
Canadian County	154,405	172,981	18,576	
Carter County	48,003	48,872	869	1.8%
Cherokee County	47,078	49,697	2,619	
Choctaw County	14,204	14,294	90	0.6%
Cimarron County	2,296		-309	
Cleveland County	295,528		7,094	
Coal County	5,266		-87	-1.7%
Comanche County	121,125	116,351	-4,774	
Cotton County	5,527	5,007	-520	-9.4%
Craig County	14,107	13,494	-613	
Creek County	71,754	72,112	358	
Custer County	28,513	30,950	2,437	8.5%
Delaware County	40,397	42,511	2,114	5.2%
Dewey County	4,484	5,067	583	
Ellis County	3,749	3,833	84	
Garfield County	62,846	63,096	250	0.4%
Garvin County	25,656	27,872	2,216	8.6%
Grady County	54,795	54,527	-268	-0.5%
Grant County	4,169	4,387	218	5.2%
Greer County	5,491	5,539	48	0.9%
Harmon County	2,488	2,504	16	0.6%
Harper County	3,272	3,737	465	14.2%
Haskell County	11,561	12,343	782	6.8%
Hughes County	13,367	12,793	-574	-4.3%
Jackson County	24,785	22,409	-2,376	-9.6%
Jefferson County	5,337	5,714	377	7.1%
Johnston County	10,272	10,987	715	
Kay County	43,700	41,769	-1,931	-4.4%
Kingfisher County	15,184	16,619	1,435	9.5%

Table 4: Projected Population by County (continued)

County	Population	Population	Total Change	Percent Change
	2020	2030		
Kiowa County	8,509	8,284	-225	-2.6%
Latimer County	9,444	9,195	-249	-2.6%
Le Flore County	48,129	48,885	756	1.6%
Lincoln County	33,458	34,933	1,475	4.4%
Logan County	49,555	51,989	2,434	4.9%
Love County	10,146	10,741	595	5.9%
Major County	41,662	42,405	743	1.8%
Marshall County	30,814	35,153	4,339	14.1%
Mayes County	18,941	18,008	-933	-4.9%
McClain County	7,782	8,153	371	4.8%
McCurtain County	15,312	15,730	418	2.7%
McIntosh County	39,046	41,761	2,715	7.0%
Murray County	13,904	14,250	346	2.5%
Muskogee County	66,339	65,442	-897	-1.4%
Noble County	10,924	10,929	5	0.0%
Nowata County	9,320	10,084	764	8.2%
Okfuskee County	11,310	11,828	518	4.6%
Oklahoma County	796,292	854,619	58,327	7.3%
Okmulgee County	36,706	36,995	289	0.8%
Osage County	45,818	45,931	113	0.2%
Ottawa County	30,285	30,894	609	2.0%
Pawnee County	15,553	15,937	384	2.5%
Payne County	81,646	86,914	5,268	6.5%
Pittsburg County	43,773	41,590	-2,183	-5.0%
Pontotoc County	38,065	39,157	1,092	2.9%
Pottawatomie County	72,454	74,281	1,827	2.5%
Pushmataha County	10,812	10,485	-327	-3.0%
Roger Mills County	3,442	3,649	207	6.0%
Rogers County	95,240	95,670	430	0.5%
Seminole County	23,556	23,873	317	1.3%
Sequoyah County	39,281	40,245	964	2.5%
Stephens County	42,848	41,270	-1,578	-3.7%
Texas County	21,384	20,456	-928	-4.3%
Tillman County	6,968	6,793	-175	-2.5%
Tulsa County	669,279	685,303	16,024	2.4%
Wagoner County	80,981	84,547	3,566	
Washington County	52,455	·	-44	-0.1%
Washita County	10,924	10,510	-414	-3.8%
Woods County	8,624		989	11.5%
Woodward County	20,470		241	1.2%
Total	3,959,353		135,462	3.4%

Source: U.S. Census Bureau, Decennial Census, 2020. Oklahoma Department of Commerce, March 2023.

Table 8: Educational Assets

Institution Name	Institution	City	County	Area	Degree
	Туре				Types
Cameron University	Public	Lawton	Comanche	Lawton MSA	Associate,
					Bachelor,
					Master,
					Doctorate
Cameron University	Public	Duncan	Stephens	Southwest	Associate,
					Bachelor,
					Master,
					Doctorate
Carl Albert State College	Public	Poteau	Le Flore	Ft. Smith	Associate,
				MSA	Certificate
Carl Albert State College	Public	Sallisaw	Sequoyah	Ft. Smith	Associate,
				MSA	Certificate
College of the Muscogee Nation	Public	Muskogee	Muskogee	Northeast	Associate,
					Certificate
Connors State College	Public	Muskogee	Muskogee	Northeast	Associate,
					Certificate
Connors State College	Public	Warner	Muskogee	Northeast	Associate,
					Certificate
East Central University	Public	Ada	Pontotoc	Southeast	Bachelor,
					Master
Eastern Oklahoma State College	Public	McAlester	Pittsburg	Southeast	Associate,
					Certificate
Eastern Oklahoma State College	Public	Wilburton	Latimer	Southeast	Associate,
					Certificate
Langston University	Public	Langston	Logan	OKC MSA	Associate,
					Bachelor,
					Master,
					Doctorate
Langston University	Public	Oklahoma	Oklahoma	OKC MSA	Associate,
		City			Bachelor,
					Master,
					Doctorate
Langston University	Public	Tulsa	Tulsa	Tulsa MSA	Associate,
					Bachelor,
					Master,
					Doctorate
Murray State College	Public	Tishomingo	Johnston	Southeast	Associate
Murray State College	Public	Ardmore	Carter	Southeast	Associate
Northeastern Oklahoma A&M	Public	Miami	Ottawa	Northeast	Associate,
College					Certificate
Northeastern State University	Public	Tahlequah	Cherokee	Northeast	Certificate,
					Bachelor,
					Master

Table 8: Educational Assets (continued)

Institution Name	Institution	City	County	Area	Degree
	Туре				Types
Northeastern State University	Public	Broken Arrow	Tulsa	Tulsa MSA	Certificate, Bachelor, Master
Northeastern State University	Public	Muskogee	Muskogee	Northeast	Certificate, Bachelor, Master
Northern Oklahoma College	Public	Tonkawa	Kay	Northwest	Associate, Certificate
Northern Oklahoma College	Public	Enid	Garfield	Enid MSA	Associate, Certificate
Northern Oklahoma College	Public	Stillwater	Payne	Northwest	Associate, Certificate
Northwestern Oklahoma State University	Public	Alva	Woods	Northwest	Bachelor, Master, Doctorate
Northwestern Oklahoma State University	Public	Enid	Garfield	Enid MSA	Bachelor, Master, Doctorate
Northwestern Oklahoma State University	Public	Woodward	Woodward	Northwest	Bachelor, Master, Doctorate
Oklahoma City Community College	Public	Oklahoma City	Oklahoma	OKC MSA	Associate, Certificate
Oklahoma Panhandle State University	Public	Goodwell	Texas	Northwest	Associate, Bachelor, Certificate
Oklahoma State University	Public	Stillwater	Payne	Northwest	Bachelor, Master, Doctorate
Oklahoma State University	Public	Oklahoma City	Oklahoma	OKC MSA	Bachelor, Master
Oklahoma State University	Public	Tulsa	Tulsa	Tulsa MSA	Bachelor, Master, Doctorate
Oklahoma State University Center for Health Sciences	Public	Tulsa	Tulsa	Tulsa MSA	M.D., Master, Doctorate, Graduate Certificate
Oklahoma State University Institute of Technology	Public	Okmulgee	Okmulgee	Tulsa MSA	Associate, Bachelor
Oklahoma State University Oklahoma City	Public	Oklahoma City	Oklahoma	OKC MSA	Associate, Certificate

Table 8: Educational Assets (continued)

Institution Name	Institution	City	County	Area	Degree
	Туре				Types
Redlands Community College	Public	El Reno	Canadian	OKC MSA	Associate
Rogers State University	Public	Claremore	Rogers	Tulsa MSA	Certificate, Associate, Bachelor,
					Master
Rogers State University	Public	Bartlesville	Washington	Northeast	Certificate,
					Associate, Bachelor, Master
Rogers State University	Public	Pryor	Mayes	Northeast	Certificate, Associate, Bachelor, Master
Rose State College	Public	Midwest City	Oklahoma	OKC MSA	Associate
Seminole State College	Public	Seminole	Seminole	Southeast	Certificate, Associate
Southeastern Oklahoma State University	Public	Durant	Bryan	Southeast	Bachelor, Master
Southeastern Oklahoma State University	Public	Idabel	McCurtain	Southeast	Bachelor, Master
Southwestern Oklahoma State University	Public	Sayre	Beckham	Southwest	Bachelor, Master
Southwestern Oklahoma State University	Public	Weatherford	Custer	Southwest	Bachelor, Master, Associate, Doctorate
Tulsa Community College	Public	Tulsa	Tulsa	Tulsa MSA	Associate, Certificate
University Center at Ponca City	Public	Ponca City	Kay	Northwest	Associate, Bachelor, Master, Doctorate
University Center of Southern Oklahoma	Public	Ardmore	Carter	Southeast	Associate, Bachelor
University of Central Oklahoma	Public	Edmond	Oklahoma	OKC MSA	Bachelor, Master, Doctorate, Graduate Certificate

Table 8: Educational Assets (continued)

Institution Name	Institution	City	County	Area	Degree
	Туре				Types
University of Oklahoma	Public	Norman	Cleveland	OKC MSA	Bachelor, Master, Doctorate, Graduate Certificate
University of Oklahoma	Public	Tulsa	Tulsa	Tulsa MSA	Bachelor, Master, Doctorate, Graduate Certificate
Tulsa Community College	Public	Tulsa	Tulsa	Tulsa MSA	Associate, Certificate
University Center at Ponca City	Public	Ponca City	Kay	Northwest	Associate, Bachelor, Master, Doctorate
University Center of Southern Oklahoma	Public	Ardmore	Carter	Southeast	Associate, Bachelor
University of Central Oklahoma	Public	Edmond	Oklahoma	OKC MSA	Bachelor, Master, Doctorate, Graduate Certificate
University of Oklahoma	Public	Norman	Cleveland	OKC MSA	Bachelor, Master, Doctorate, Graduate Certificate
University of Oklahoma	Public	Tulsa	Tulsa	Tulsa MSA	Bachelor, Master, Doctorate, Graduate Certificate
University of Oklahoma Health Sciences Center	Public	Oklahoma City	Oklahoma	OKC MSA	Residency
University of Science and Arts of Oklahoma	Public	Chickasha	Grady	OKC MSA	Bachelor
Western Oklahoma State College	Public	Altus	Jackson	Southwest	Associate, Certificate
Central Oklahoma College	For Profit	Oklahoma City	Oklahoma	OKC MSA	Certificate
Community Care College	Private Non- Profit	Tulsa	Tulsa	Tulsa MSA	Associate, Certificate

Table 8: Educational Assets (continued)

University  Profit  City  Bachelor, Master, Certificate  Oklahoma Baptist University  Private Non- Profit  Oklahoma Christian University  Private Non- Profit  Oklahoma City University  Private Non- Profit  Oklahoma City University  Private Non- Profit  Oklahoma City University  Private Non- Profit  Tulsa  Tulsa  Tulsa  Tulsa Tulsa MSA  Certificate  Oklahoma Washington  Northeast  Associate, Bachelor, Master, Doctorate, J.D.  Certificate  Tulsa  Master, Doctorate, Graduate Certificate  Certificate  Oklahoma  Okc MSA  Associate, Bachelor, Master, Doctorate, Graduate Certificate  Oklahoma  Profit  Oklahoma  Profit  Oklahoma  Oklahoma  Okc MSA  Certificates  Certificate  Oklahoma  Okc MSA  Certificates  Certificate  Oklahoma  Okc MSA  Certificates  Certificate  Oklahoma  Okc MSA  Certificates	Institution Name	Institution	City	County	Area	Degree
University  Profit  City  Bachelor, Master, Certificate  Oklahoma Baptist University  Private Non- Profit  Oklahoma Christian University  Private Non- Profit  Oklahoma City University  Private Non- Profit  Oklahoma City University  Private Non- Profit  Oklahoma City University  Private Non- Profit  Tulsa  Tulsa  Tulsa  Tulsa Tulsa MSA  Certificate  Oklahoma Washington  Northeast  Associate, Bachelor, Master, Doctorate, J.D.  Certificate  Tulsa  Master, Doctorate, Graduate Certificate  Certificate  Oklahoma  Okc MSA  Associate, Bachelor, Master, Doctorate, Graduate Certificate  Oklahoma  Profit  Oklahoma  Profit  Oklahoma  Oklahoma  Okc MSA  Certificates  Certificate  Oklahoma  Okc MSA  Certificates  Certificate  Oklahoma  Okc MSA  Certificates  Certificate  Oklahoma  Okc MSA  Certificates		Туре				Types
Oklahoma Baptist University Oklahoma Crity University Oklahoma Technical College Oklahoma Technical College Oklahoma Technical College Oklahoma Wesleyan University Oral Roberts Unive	Mid-America Christian		Oklahoma	Oklahoma	OKC MSA	
Oklahoma Baptist University Private Non-Profit Oklahoma Christian University Oklahoma Christian University Private Non-Profit Oklahoma City University Oklahoma Technical College Oklahoma Technical College Oklahoma Technical College Oklahoma Technical College Oklahoma Wesleyan University Oklahoma Oklahoma Tulsa Oklahoma Tulsa MsA Oklahoma Tulsa MsA Oklahoma Tulsa MsA Oklahoma Tulsa MsA Okc MsA O	University	Profit	City			•
Oklahoma Baptist University Private Non-Profit Oklahoma Christian University Private Non-Profit Oklahoma Christian University Private Non-Profit Oklahoma City University Oklahoma City University Private Non-Profit Oklahoma City University Private Non-Profit Oklahoma City University Private Non-Profit Oklahoma Technical College Non-traditional nonprofit Oklahoma Wesleyan University Private Non-Profit Oklahoma Wesleyan University Private Non-Profit  Oklahoma Technical College Non-Trivate Non-Profit Oklahoma Wesleyan University Private Non-Profit  Oklahoma Technical College Non-Trivate Non-Profit Oklahoma Wesleyan University Private Non-Profit  Oklahoma Tulsa Tulsa Tulsa MSA Bachelor, Master, Doctorate, Graduate Certificate Profit Private Non-Profit City Private Non-Profit City Private Non-Profit City Private Non-Profit Randall University Private Non-Profit P						
Oklahoma Christian University Private Non-Profit Oklahoma City University Oklahoma City University Oklahoma City University Oklahoma City University Private Non-Profit Oklahoma City University Oklahoma City University Oklahoma Technical College Oklahoma Technical College Non-traditional nonprofit Oklahoma Wesleyan University Oklahoma Oklahoma Oklahoma Oral Roberts University Oral Roberts Non-Profit Oral Roberts University Oral Roberts University Oral Roberts University Oral Roberts Non-Profit Oral Roberts Non-Pr						
Oklahoma Christian University Private Non-Profit City Oklahoma City University Oklahoma City University Private Non-Profit City Oklahoma Oklahoma City Oklahoma Oklahoma OKC MSA Bachelor, Master, Doctorate, J.D. Oklahoma Technical College Non- traditional nonprofit Private Non-Profit Oklahoma Wesleyan University Private Non-Profit Oral Roberts University Private Non-Profit Private Non-Profit Private Non-Profit Private Non-Profit Private Non-Profit Private Non-Profit Oklahoma	Oklahoma Baptist University		Shawnee	Pottawatomie	Southeast	
Profit City Master, Certificate  Oklahoma City University Private Non-Profit City Oklahoma City University Private Non-Profit City Oklahoma OKC MSA Bachelor, Master, Doctorate, J.D.  Oklahoma Technical College Non-traditional nonprofit Private Non-Profit Washington Profit Washington Northeast Associate, Bachelor, Master, Doctorate, Certificate Certificate  Oral Roberts University Private Non-Profit Tulsa Tulsa Tulsa MSA Bachelor, Master, Doctorate, Graduate Certificate  Phillips Theological Seminary Private Non-Profit City Private Non-Profit City Private Non-Profit City Private Non-Profit City Private Non-Profit Doklahoma OKC MSA Associate, Bachelor, Master Southern Nazarene University Private Non-Profit Doctorate OKC MSA Bachelor, Master Southwestern Christian Private Non-Profit Doctorate OKC MSA Bachelor, Master Southwestern Christian Private Non-Profit Doctorate OKC MSA Bachelor, Master Spartan College of Aeronautics Private For-Itulsa Tulsa Tulsa Tulsa MSA Associate, Master Spartan College of Aeronautics Private For-Itulsa Tulsa Tulsa Associate, Associate, Master Tulsa Associate, Profit Tulsa Tulsa Associate, Associate, Master Tulsa Associate, Profit Tulsa Associate, Associate, Profit Master Tulsa Associate, Private For-Itulsa Tulsa Associate, Associate, Associate, Private For-Itulsa Tulsa Associate, Associate, Associate, Private For-Itulsa Tulsa Tulsa Associate, Private For-Itulsa Tulsa Associate, Private For-Itulsa Tulsa Associate, Private For-Itulsa Tulsa Associate, Private For-Itulsa Tulsa Tulsa Associate, Private For-Itulia Tulsa Tulsa Associate, Private For-Itulia Tulsa Tulsa Associate, Private For-Itulia Tulsa Tulsa Tulsa Associate, Private For-Itulia Tulsa Tulsa Tulsa Associate, Private For-Itulia Tulsa Tulsa Tulsa Tulsa Associate, Private For-Itulia Tulsa Tulsa Tulsa Tulsa Tulsa Associate, Private For-Itulia Tulsa Tulsa Tulsa Tulsa Tulsa Tulsa Tulsa Tulsa Tuls						
Oklahoma City University  Private Non-Profit  Oklahoma City University  Private Non-Profit  Oklahoma City  Oklahoma Okc MSA  Bachelor, Master, Doctorate, J.D.  Oklahoma Technical College  Non-traditional nonprofit  Oklahoma Wesleyan University  Private Non-Profit  Oral Roberts University  Private Non-Profit  Private Non-Profit  Private Non-Profit  Private For Profit  Randall University  Private Non-Profit  Private Non-Profit  Private Non-Profit  Oklahoma  Okc MSA  Associate, Bachelor, Master, Doctorate, Certificate  Tulsa Tulsa Tulsa Tulsa MSA  Master, Doctorate, Graduate Certificate  Certificate  Oklahoma  Okc MSA  Okc MSA  Associate, Bachelor, Master, Ph.D.  Oklahoma  Okc MSA  Associate, Bachelor, Master, Ph.D.  Oklahoma  Okc MSA  Associate, Bachelor, Master  Okc MSA  Associate, Bachelor, Master  Oklahoma  Okc MSA  Okc MSA  Bachelor, Master  Oklahoma  Okc MSA  Bachelor, Master  Okcorate  Okc	Oklahoma Christian University			Oklahoma	OKC MSA	· · ·
Oklahoma City University Private Non-Profit City Oklahoma OkC MSA OKC MSA OKC MSA Bachelor, Master, Doctorate, Bachelor, Master, Doctorate, Certificate Oral Roberts University Oral Roberts University Private Non-Profit Private Non-Profit Oklahoma OKC MSA OKC		Profit	City			'
Profit City Master, Doctorate, J.D.  Oklahoma Technical College Non-traditional nonprofit Northeast Profit Washington Profit Washington Northeast Associate, Bachelor, Master, Doctorate, Certificate Profit Washington Northeast Associate, Bachelor, Master, Doctorate, Graduate Certificate Profit Washington Northeast Associate, Bachelor, Master, Doctorate, Graduate Certificate Private Non-Profit City Northeast Associate, Bachelor, Master, Profit City Private Non-Profit City Northeast Associate, Bachelor, Master Southern Nazarene University Private Non-Profit Doctorate Northeast North						
Oklahoma Technical College Non- traditional nonprofit Oklahoma Wesleyan University Private Non- Profit Private Non- Profit  Private Non- Profit Private Non- Profit Private Non- Profit Private Non- Profit Private Non- Profit Private Non- Profit Private Non- Profit Private Non- Profit Private Non- Profit Private Non- Profit Private Non- Profit Oklahoma Profit Oklahoma Okc MSA Certificate  Private For Profit City Randall University Private Non- Profit Private Non- Profit Private Non- Profit City Randall University Private Non- Profit Private N	Oklahoma City University			Oklahoma	OKC MSA	•
Oklahoma Technical College Non-traditional nonprofit  Oklahoma Wesleyan University Private Non-Profit  Oral Roberts University Private Non-Profit  Randall University Private Non-Profit  Private Non-Profit  Private Non-Profit  Private Non-Profit  Southern Nazarene University Private Non-Profit  Private Non-Profit  Private Non-Profit  Southern Nazarene University Private Non-Profit  Private Non-Profit  Private Non-Profit  Private Non-Profit  Southern Nazarene University Private Non-Profit P		Profit	City			The state of the s
Oklahoma Technical College  Non-traditional nonprofit  Oklahoma Wesleyan University  Private Non-Profit  Private Non-Profit  Oral Roberts University  Private Non-Profit  Oklahoma City  OkC MSA  Associate, Bachelor, Master, Doctorate, Graduate Certificate  Private Rondall University  Private Non-Profit  Randall University  Private Non-Profit  Private Non-Profit  Southern Nazarene University  Private Non-Profit  Private Non-Profit  Private Non-Profit  Southern Nazarene University  Private Non-Profit  Private Non-Profit  Private Non-Profit  Profit  Southern Nazarene University  Private Non-Profit  Private Non-Profit  Private Non-Profit  Southern Nazarene University  Private Non-Profit  Private Non-Profit  Private Non-Profit  Southern Nazarene University  Private Non-Profit  Private Non-Profit  Associate, Bachelor, Master, Doctorate  OKC MSA  Bachelor, Master, Doctorate  Southern Nazarene University  Private Non-Profit  Southern Nazarene University  Private Non-Profit  Associate, Master, Doctorate  OKC MSA  Bachelor, Master  Doctorate  Southern Nazarene University  Private Non-Profit  Nasarene  Doctorate  OKC MSA  Bachelor, Master  Doctorate  Southern Nazarene  Drivate Non-Profit  Nasarene  Drivate Non-Prof						
traditional nonprofit  Oklahoma Wesleyan University Private Non-Profit  Oral Roberts University Private Non-Profit  Profit  Private Non-Profit  Randall University Private Non-Profit  Private Non-Profit  Private Non-Profit  Private Non-Profit  Private Non-Profit  Private Non-Profit  Southern Nazarene University Private Non-Profit  Profit  Profit  Private Non-Profit  Profit  Profit  Private Non-Profit  Profit  Private Non-Profit  Profit  Private Non-Profit  Profit  Private Non-Profit  Pr						
Northeast Associate, Bachelor, Master, Doctorate, Certificate  Oral Roberts University  Private Non-Profit  Profit  Private Non-Profit  Private Non-Profit  Private Non-Profit  Private Non-Profit  Private Non-Profit  Private Non-Profit  Private For Profit  Randall University  Private Non-Profit  Private Non-Profit  Private Non-Profit  Randall University  Private Non-Profit  Private Non-Profit  Private Non-Profit  Private Non-Profit  Randall University  Private Non-Profit  Private Non-Profit  Private Non-Profit  Bethany  Oklahoma  OKC MSA  Associate, Bachelor, Master  Oklahoma  OKC MSA  Bachelor, Master  Oklahoma  OKC MSA  Bachelor, Master  Southern Nazarene University  Private Non-Profit  Southwestern Christian  University  Private Non-Profit  Tulsa  Tulsa  Tulsa  Tulsa  Associate, Bachelor, Master  Octorate  Southwestern Christian  University  Private For-Voite  Frivate For-Voite  Frivate For-Voite  Tulsa  Tulsa  Tulsa  Associate, Asso	Oklahoma Technical College		Tulsa	Tulsa	Tulsa MSA	Certificate
Oklahoma Wesleyan University Profit P						
Profit Bachelor, Master, Doctorate, Certificate  Oral Roberts University Private Non-Profit Profit Tulsa Tulsa Tulsa MSA Bachelor, Master, Doctorate, Graduate Certificate  Phillips Theological Seminary Private Non-Profit Tulsa Tulsa Tulsa Tulsa MSA Master, Ph.D.  Platt College Private For Profit City Oklahoma Oklahoma OKC MSA Certificates  Randall University Private Non-Profit City Oklahoma OKC MSA Associate, Bachelor, Master  Southern Nazarene University Private Non-Profit Oklahoma OKC MSA Bachelor, Master  Southwestern Christian Private Non-Profit Profit Duly Master  Southwestern Christian Private Non-Profit Profit Tulsa Tulsa Tulsa Tulsa MSA Associate, Master  Spartan College of Aeronautics Private For-Tulsa Tulsa Tulsa Tulsa Associate, Associate, Master						
Oral Roberts University  Private Non-Profit  Profit  Private Non-Profit  Profit  Private Non-Profit  Private Non-Profit  Private Non-Profit  Private Non-Profit  Private ForProfit  Randall University  Private Non-Profit  Private Non-Profit  Randall University  Private Non-Profit  Private Non-Profit  Private Non-Profit  Private Non-Profit  Private Non-Profit  Private Non-Profit  Bethany  Oklahoma  OKC MSA  Associate, Bachelor, Master  Bachelor, Master  Southwestern Christian  Private Non-Profit  Private Non-Profit  Southwestern Christian  Private Non-Profit  Private Non-Profit  Private Non-Profit  Doctorate  Southwestern Christian  Private Non-Profit  Private Non-Profit  Private Non-Profit  Private Non-Profit  Doctorate  Southwestern Christian  Private Non-Profit  Private Non-Profit  Doctorate  Southwestern Christian  Private Non-Profit  Doctorate  Tulsa  Tulsa MSA  Associate, Associate, Bachelor, Master  Tulsa Tulsa MSA  Associate,	Oklahoma Wesleyan University		Bartlesville	Washington	Northeast	
Oral Roberts University Private Non-Profit Profit Private Non-Profit Private For Profit Private Non-Profit Private Non-Private Non-Private Non-Private Non-Private Non-Private Non-Private Non-Priva		Profit				Bachelor,
Oral Roberts University Private Non-Profit Profit Private Non-Profit Private For Profit Private Non-Profit Private Non-Private						Master,
Oral Roberts University  Private Non-Profit  Profit  Private Non-Profit  Private Por-Profit  Private Por-Profit  Private ForProfit  Randall University  Private Non-Profit  Pr						Doctorate,
Profit Master, Doctorate, Graduate Certificate  Phillips Theological Seminary Private Non-Profit Platt College Private For Profit Private Non-Profit Naster Non-Profit Private Non-Profi						Certificate
Phillips Theological Seminary Private Non-Profit Platt College Private For Profit Private Non-Profit Private Non-Profit Randall University Private Non-Profit Profit Profit Private Non-Profit Private Non-Profit Profit Profit Private Non-Profit Private Non-Private No	Oral Roberts University	Private Non-	Tulsa	Tulsa	Tulsa MSA	Bachelor,
Phillips Theological Seminary Private Non-Profit Platt College Private For Profit Profit Profit Profit Profit Private Non-Profit Profit Private Non-Profit Profit Private Non-Profit		Profit				Master,
Phillips Theological Seminary Private Non-Profit Platt College Private For Profit Profit Profit Profit Profit Private For Profit Private Non-Profit Profit Profit Profit Profit Private Non-Profit Profit Profit Profit Profit Profit Private Non-Profit Profit Profi						Doctorate,
Phillips Theological Seminary Profit  Platt College Private For Profit  Randall University Private Non-Profit  Southern Nazarene University Private Non-Profit  Southwestern Christian University Private Non-Profit						Graduate
Profit Oklahoma Oklahoma OKC MSA Certificates  Profit City Oklahoma Oklahoma OKC MSA Certificates  Profit City OKC MSA Certificates  Profit City OKC MSA Certificates  City OKC MSA Associate,  Bachelor,  Master  Southern Nazarene University Private Non- Profit Oklahoma OKC MSA Bachelor,  Master,  Doctorate  Southwestern Christian Private Non- University Profit Oklahoma OKC MSA Bachelor,  Master  Doctorate  Southwestern Christian Private Non- University Profit Tulsa Tulsa Tulsa MSA Associate,  Tulsa MSA Associate,						Certificate
Platt College Private For Profit  Randall University Private Non-Profit  Southern Nazarene University Private Non-Profit  Southwestern Christian University Private Non-Profit Profit  Private Non-Profit Profit  Doctorate  Southwestern Christian University Private Non-Profit Private Non-Profit Private Non-Profit Private Non-Profit Private Non-Profit Profit Profit  Doctorate  Southwestern Christian Private Non-Profit Profit Profit Profit Tulsa Tulsa MSA Associate,	Phillips Theological Seminary	Private Non-	Tulsa	Tulsa	Tulsa MSA	Master,
Profit City  Randall University Private Non-Profit  Southern Nazarene University Private Non-Profit  Profit  Private Non-Profit  Private Non-Profit  Southwestern Christian University Private Non-Profit Private Non-Profit  Private Non-Profit Private Non-Profit Private Non-Profit Private Non-Profit Private Non-Profit Private Non-Profit Private Non-Profit Profit Profit  Tulsa Tulsa MSA Associate,  Associate, Bachelor, Master Tulsa Tulsa MSA Associate,		Profit				Ph.D.
Randall University Profit Profit  Southern Nazarene University Profit Pr	Platt College	Private For	Oklahoma	Oklahoma	OKC MSA	Certificates
Profit Bachelor, Master  Southern Nazarene University Private Non- Profit Oklahoma OKC MSA Bachelor, Master, Doctorate  Southwestern Christian Private Non- University Profit Oklahoma OKC MSA Bachelor, Master Tulsa Tulsa MSA Associate,		Profit	City			
Southern Nazarene University Private Non-Profit Profit Private Non-Profit Profit Profit Profit Tulsa Tulsa MSA Associate,	Randall University	Private Non-	Moore	Cleveland	OKC MSA	Associate,
Southern Nazarene University Private Non-Profit Oklahoma OKC MSA Bachelor, Master, Doctorate  Southwestern Christian Private Non-University Profit Profit Tulsa Tulsa MSA Associate,		Profit				Bachelor,
Profit Master, Doctorate  Southwestern Christian Private Non- University Profit Description  Spartan College of Aeronautics Private For-  Tulsa Tulsa MSA Associate,						Master
Southwestern Christian Private Non- Bethany Oklahoma OKC MSA Bachelor, University Profit Tulsa Tulsa Tulsa MSA Associate,	Southern Nazarene University	Private Non-	Bethany	Oklahoma	OKC MSA	Bachelor,
Southwestern Christian Private Non- Bethany Oklahoma OKC MSA Bachelor, Master  Spartan College of Aeronautics Private For- Tulsa Tulsa Tulsa MSA Associate,		Profit				Master,
University Profit Master  Spartan College of Aeronautics Private For- Tulsa Tulsa Tulsa MSA Associate,			<u> </u>			Doctorate
Spartan College of Aeronautics Private For- Tulsa Tulsa Tulsa MSA Associate,	Southwestern Christian	Private Non-	Bethany	Oklahoma	OKC MSA	Bachelor,
Spartan College of Aeronautics Private For- Tulsa Tulsa Tulsa MSA Associate,	University	Profit				Master
	Spartan College of Aeronautics	Private For-	Tulsa	Tulsa	Tulsa MSA	Associate,
	and Technology	Profit				Bachelor

Table 8: Educational Assets (continued)

Institution Name	Institution	City	County	Area	Degree
	Туре				Types
The University of Tulsa	Private Non-	Tulsa	Tulsa	Tulsa MSA	Bachelor,
	Profit				Master,
					Doctorate,
					Graduate
					Certificate
Tulsa Welding School	Private For-	Tulsa	Tulsa	Tulsa MSA	Associate,
	Profit				Certificate
University of Phoenix	Private For	Oklahoma	Oklahoma	OKC MSA	Bachelor,
	Profit	City			Master
University of Phoenix	Private For	Tulsa	Tulsa	Tulsa MSA	Bachelor,
	Profit				Master
Autry Technology Center	Technical	Enid	Garfield	Enid MSA	Certificate
	School				
Caddo Kiowa Technology	Technical	Fort Cobb	Caddo	Southwest	Certificate
Center	School				
Canadian Valley Technology	Technical	Yukon	Canadian	OKC MSA	Certificate
Center	School				
Canadian Valley Technology	Technical	Chickasha	Grady	OKC MSA	Certificate
Center	School				
Canadian Valley Technology	Technical	El Reno	Canadian	OKC MSA	Certificate
Center	School				
Central Technology Center	Technical	Drumright	Creek/Payne	Tulsa MSA/	Certificate
	School			Northwest	
Central Technology Center	Technical	Sapulpa	Creek	Tulsa MSA	Certificate
	School				
Chisholm Trail Technology	Technical	Omega	Kingfisher	Northwest	Certificate
Center	School				
Eastern Oklahoma County	Technical	Choctaw	Oklahoma	OKC MSA	Certificate
Technology Center	School				
Francis Tuttle Technology	Technical	3 Campuses	Oklahoma	OKC MSA	Certificate
Center	School	in Oklahoma			
		City			
Gordon Cooper Technology	Technical	Shawnee	Pottawatomie	Southeast	Certificate
Center	School				
Great Plains Technology Center	Technical	Lawton	Comanche	Lawton MSA	Certificate
	School				
Great Plains Technology Center	Technical	Frederick	Tillman	Southwest	Certificate
	School				
Green Country Technology	Technical	Okmulgee	Okmulgee	Tulsa MSA	Certificate
Center	School				

Table 8: Educational Assets (continued)

Institution Name	Institution	City	County	Area	Degree
	Туре				Types
High Plains Technology Center	Technical School	Woodward	Woodward	Northwest	Certificate
Indian Capital Technology Center	Technical School	Muskogee	Muskogee	Northeast	Certificate
Indian Capital Technology Center	Technical School	Sallisaw	Sequoyah	Ft. Smith MSA	Certificate
Indian Capital Technology Center	Technical School	Stilwell	Adair	Northeast	Certificate
Indian Capital Technology Center	Technical School	Tahlequah	Cherokee	Northeast	Certificate
Kiamichi Technology Center	Technical School	Antlers	Pushmataha	Southeast	Certificate
Kiamichi Technology Center	Technical School	Atoka	Atoka	Southeast	Certificate
Kiamichi Technology Center	Technical School	Durant	Bryan	Southeast	Certificate
Kiamichi Technology Center	Technical School	Hugo	Choctaw	Southeast	Certificate
Kiamichi Technology Center	Technical School	Idabel	McCurtain	Southeast	Certificate
Kiamichi Technology Center	Technical School	McAlester	Pittsburg	Southern	Certificate
Kiamichi Technology Center	Technical School	Poteau	Le Flore	Ft. Smith MSA	Certificate
Kiamichi Technology Center	Technical School	Spiro	Le Flore	Ft. Smith MSA	Certificate
Kiamichi Technology Center	Technical School	Stigler	Haskell	Southern	Certificate
Kiamichi Technology Center	Technical School	Talihina	Le Flore	Ft. Smith MSA	Certificate
Meridian Technology Center	Technical School	Stillwater	Payne	Northwest	Certificate
Metro Tech Technology Center	Technical School	4 OKC Locations	Oklahoma	OKC MSA	Certificate
Mid-America Technology Center	Technical School	Wayne	McClain	OKC MSA	Certificate
Mid-Del Technology Center	Technical School	Midwest City	Oklahoma	OKC MSA	Certificate
Moore Norman Technology Center	Technical School	Norman	Cleveland	OKC MSA	Certificate
Moore Norman Technology Center	Technical School	Oklahoma City	Oklahoma	OKC MSA	Certificate

Table 8: Educational Assets (continued)

Institution Name	Institution	City	County	Area	Degree
	Туре				Types
Northeast Technology Center	Technical	Afton	Ottawa	Northeast	Certificate
North cost Toolers last Courter	School	Claramana	Danama	Newtheres	Contificato
Northeast Technology Center	Technical School	Claremore	Rogers	Northeast	Certificate
Northeast Technology Center	Technical	Kansas	Delaware	Northeast	Certificate
Northeast reciniology center	School	Karisas	Delaware	Northeast	Certificate
Northeast Technology Center	Technical	Pryor	Mayes	Northeast	Certificate
σ,	School	'	,		
Northwest Technology Center	Technical	Alva	Woods	Northwest	Certificate
	School				
Northwest Technology Center	Technical	Fairview	Major	Northwest	Certificate
	School				
Pioneer Technology Center	Technical	Ponca City	Kay	Northwest	Certificate
	School				_
Pontotoc Technology Center	Technical	Ada	Pontotoc	Southern	Certificate
D. J. D T b d C d	School	D	Cl l	C . 11	Contiguate
Red River Technology Center	Technical	Duncan	Stephens	Southwest	Certificate
Southern Oklahoma Technology	School Technical	Ardmore	Carter	Southeast	Certificate
Center	School	Arumore	Carter	Southeast	Certificate
Southwest Technology Center	Technical	Altus	Jackson	Northwest	Certificate
	School				
Tri-County Technology Center	Technical	Bartlesville	Washington	Northeast	Certificate
	School		_		
Tulsa Technology Center	Technical	Broken Arrow	Tulsa/Wagoner	Tulsa MSA	Certificate
	School				
Tulsa Technology Center	Technical	Owasso	Tulsa/Rogers	Tulsa MSA	Certificate
	School				
Tulsa Technology Center	Technical	Sand Springs	Osage/Tulsa	Tulsa MSA	Certificate
Tulas Tasha alama Cantan	School	N. A.	Tules	Tules NACA	Cautificate
Tulsa Technology Center	Technical School	Memorial Tulsa	Tulsa	Tulsa MSA	Certificate
Tulsa Technology Center	Technical	Riverside	Tulsa	Tulsa MSA	Certificate
ruisa recimology center	School	Tulsa	Tuisa	Tuisa WisA	Certificate
Tulsa Technology Center	Technical	Peoria Tulsa	Tulsa	Tulsa MSA	Certificate
, and	School				
Wes Watkins Technology	Technical	Wetumka	Hughes	Southeast	Certificate
Center	School				
Western Technology Center	Technical	Burns Flat	Washita	Southwest	Certificate
	School				
Western Technology Center	Technical	Elk City	Beckham	Southwest	Certificate
	School				
Western Technology Center	Technical	Hobart, Sayre	Kiowa	Southwest	Certificate
	School				
Western Technology Center	Technical	Weatherford	Custer	Southwest	Certificate
	School				

SOURCE: Oklahoma State Regents of Higher Education, <u>CareerTech.org</u>.

Table 9: Labor Force Participation by County

	LFPR	LFPR	Total
Area	2021	2022	Change
State of Oklahoma	60.8%	60.5%	-0.3%
Adair County	50.4%	50.6%	0.3%
Alfalfa County	47.8%	47.5%	-0.4%
Atoka County	45.3%	46.2%	0.9%
Beaver County	62.2%	60.2%	-2.1%
Beckham County	52.3%	51.5%	-0.7%
Blaine County	47.5%	48.3%	0.8%
Bryan County	58.4%	58.3%	-0.1%
Caddo County	51.1%	53.6%	2.5%
Canadian County	68.9%	68.2%	-0.7%
Carter County	59.6%	59.7%	0.1%
Cherokee County	56.4%	56.5%	0.2%
Choctaw County	53.0%	53.3%	0.2%
Cimarron County	61.7%	61.2%	-0.5%
Cleveland County	65.0%	64.4%	-0.6%
Coal County	52.7%	51.1%	-1.6%
Comanche County	53.0%	51.1%	-2.0%
Cotton County	55.9%	55.1%	-0.8%
Craig County	50.3%	49.4%	-0.9%
Creek County	56.3%	56.6%	0.3%
Custer County	68.2%	66.5%	-1.7%
Delaware County	50.0%	50.3%	0.3%
Dewey County	57.3%	57.7%	0.5%
Ellis County	57.0%	57.1%	0.1%
Garfield County	60.9%	61.2%	0.3%
Garvin County	55.4%	55.1%	-0.3%
Grady County	59.8%	60.0%	0.2%
Grant County	60.6%	58.2%	-2.4%
Greer County	45.0%	45.7%	0.7%
Harmon County	58.8%	59.3%	0.5%
Harper County	55.4%	56.8%	1.4%
Haskell County	53.5%	52.6%	-0.9%
Hughes County	42.7%	41.9%	-0.8%
Jackson County	57.9%	58.7%	0.9%
Jefferson County	51.5%	52.2%	0.7%
Johnston County	51.4%	49.1%	-2.3%
Kay County	58.4%	58.8%	0.4%
Kingfisher County	61.7%	61.9%	0.2%
Kiowa County	55.7%	53.4%	-2.3%

Table 9: Labor Force Participation by County

	LFPR	LFPR	Total
Area	2021	2022	Change
Latimer County	50.3%	50.6%	0.3%
Le Flore County	51.4%	51.4%	0.0%
Lincoln County	54.7%	55.3%	0.7%
Logan County	59.7%	57.9%	-1.9%
Love County	56.0%	58.2%	2.2%
Major County	63.7%	63.6%	-0.1%
Marshall County	53.6%	54.6%	1.0%
Mayes County	42.3%	41.7%	-0.5%
McClain County	58.9%	59.1%	0.2%
McCurtain County	51.2%	52.4%	1.2%
McIntosh County	57.2%	56.6%	-0.7%
Murray County	57.0%	55.4%	-1.6%
Muskogee County	52.8%	53.5%	0.6%
Noble County	57.1%	57.9%	0.8%
Nowata County	54.8%	55.2%	0.3%
Okfuskee County	44.3%	44.2%	-0.1%
Oklahoma County	65.2%	64.9%	-0.4%
Okmulgee County	55.1%	55.1%	0.0%
Osage County	54.4%	54.1%	-0.3%
Ottawa County	54.5%	54.2%	-0.4%
Pawnee County	54.8%	54.6%	-0.2%
Payne County	57.5%	56.8%	-0.7%
Pittsburg County	53.6%	52.7%	-0.9%
Pontotoc County	60.6%	60.0%	-0.7%
Pottawatomie County	56.1%	54.4%	-1.7%
Pushmataha County	46.9%	45.8%	-1.1%
Roger Mills County	59.4%	58.7%	-0.6%
Rogers County	62.9%	63.8%	0.9%
Seminole County	50.3%	49.4%	-0.9%
Sequoyah County	51.0%	51.1%	0.2%
Stephens County	54.3%	53.8%	-0.5%
Texas County	70.4%	66.3%	-4.1%
Tillman County	55.5%	53.3%	-2.2%
Tulsa County	66.0%	65.7%	-0.3%
Wagoner County	63.2%	63.1%	-0.1%
Washington County	57.5%	57.7%	0.2%
Washita County	61.3%	59.3%	-2.0%
Woods County	62.7%	60.5%	-2.2%
Woodward County	59.9%	61.9%	2.0%

Source: U.S. Census Bureau. American Community Survey (ACS), 5-Year Estimates.

Table 10: Median Earnings by County

Area	2022 Median Earnings
State of Oklahoma	\$ 37,013
Adair County	\$ 29,589
Alfalfa County	\$ 34,662
Atoka County	\$ 31,788
Beaver County	\$ 34,075
Beckham County	\$ 34,051
Blaine County	\$ 36,594
Bryan County	\$ 34,350
Caddo County	\$ 33,465
Canadian County	\$ 44,274
Carter County	\$ 35,915
Cherokee County	\$ 31,986
Choctaw County	\$ 32,999
Cimarron County	\$ 37,125
Cleveland County	\$ 37,870
Coal County	\$ 33,564
Comanche County	\$ 32,760
Cotton County	\$ 38,640
Craig County	\$ 30,069
Creek County	\$ 41,127
Custer County	\$ 31,270
Delaware County	\$ 31,603
Dewey County	\$ 32,546
Ellis County	\$ 31,581
Garfield County	\$ 35,134
Garvin County	\$ 38,304
Grady County	\$ 41,471
Grant County	\$ 37,054
Greer County	\$ 29,348
Harmon County	\$ 33,306
Harper County	\$ 34,880
Haskell County	\$ 30,639
Hughes County	\$ 31,148
Jackson County	\$ 36,908
Jefferson County	\$ 31,736
Johnston County	\$ 36,452
Kay County	\$ 33,000
Kingfisher County	\$ 39,393
Kiowa County	\$ 29,868

Table 10: Median Earnings by County (continued)

Area	2022 Median Earnings
Latimer County	\$ 33,106
Le Flore County	\$ 31,323
Lincoln County	\$ 37,328
Logan County	\$ 39,378
Love County	\$ 35,800
Major County	\$ 44,544
Marshall County	\$ 31,651
Mayes County	\$ 32,710
McClain County	\$ 39,536
McCurtain County	\$ 34,191
McIntosh County	\$ 35,847
Murray County	\$ 38,199
Muskogee County	\$ 34,137
Noble County	\$ 39,257
Nowata County	\$ 35,031
Okfuskee County	\$ 32,467
Oklahoma County	\$ 38,621
Okmulgee County	\$ 32,538
Osage County	\$ 35,330
Ottawa County	\$ 30,417
Pawnee County	\$ 37,815
Payne County	\$ 25,107
Pittsburg County	\$ 34,048
Pontotoc County	\$ 39,638
Pottawatomie County	\$ 34,436
Pushmataha County	\$ 30,833
Roger Mills County	\$ 41,071
Rogers County	\$ 41,435
Seminole County	\$ 31,422
Sequoyah County	\$ 32,786
Stephens County	\$ 35,897
Texas County	\$ 33,306
Tillman County	\$ 31,693
Tulsa County	\$ 38,804
Wagoner County	\$ 42,791
Washington County	\$ 35,296
Washita County	\$ 38,967
Woods County	\$ 27,395
Woodward County	\$ 35,314

Source: U.S. Census Bureau. American Community Survey (ACS), 2022 5-Year Estimates.

## **Key Industries**

Table 12: Industry Location Quotients (LQ)

NAICS Code	Industry	2022 Average Employment	2022 Average Annual Earnings	Employment LQ
Aerosp	ace and Defense Industries			
3329	Other Fabricated Metal Product Manufacturing - Federal Government	1,634	\$67,581	39.24
9281	National Security and International Affairs	21,590	\$79,377	3.38
3364	Aerospace Product and Parts Manufacturing	11,690	\$96,525	2.16
6211	Offices of Physicians - Federal Government	693	\$91,330	2.56
Energy	Industries			
4869	Other Pipeline Transportation	1,275	\$156,838	14.47
2111	Oil and Gas Extraction	11,965	\$159,860	9.8
4862	Pipeline Transportation of Natural Gas	2,248	\$118,726	6.58
2131	Support Activities for Mining	16,315	\$84,665	5.75
Agribus	siness and Biosciences Industries			
1122	Hog and Pig Farming	1,636	\$49,110	5.21
4245	Farm Product Raw Material Merchant Wholesalers	1,960	\$39,219	2.59
3111	Animal Food Manufacturing	1,851	\$64,187	2.39
3253	Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing	870	\$114,517	2.14
3116	Animal Slaughtering and Processing	11,834	\$49,125	2.06
Manufa	acturing Industries			•
3334	Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing	6,429	\$58,148	4.18
3324	Boiler, Tank, and Shipping Container Manufacturing	4,094	\$76,039	4.11
3274	Lime and Gypsum Product Manufacturing	607	\$68,555	3.62
3262	Rubber Product Manufacturing	4,931	\$70,199	3.39
3331	Agriculture, Construction, and Mining Machinery Manufacturing	7,493	\$72,907	3.27
3312	Steel Product Manufacturing from Purchased Steel	1,567	\$73,056	2.58
3221	Pulp, Paper, and Paperboard Mills	2,385	\$80,124	
3352	Household Appliance Manufacturing	1,785	\$47,029	
3271	Clay Product and Refractory Manufacturing	926	\$53,039	

Source: Bureau of Labor Statistics, Quarterly Census of Employment and Wages (QCEW).

## **Key Occupations**

Table 13: Employment Location Quotients (LQ)

SOC Code	Occupational Title	Employment	Annual Average Wage	Employment LQ
33-9031	Gambling Surveillance Officers and Gambling Investigators	1,700	\$31,310	14.94
47-5012	Rotary Drill Operators, Oil and Gas	1,770	\$56,380	13.37
43-3041	Gambling Cage Workers	1,310	\$25,740	10.27
41-2012	Gambling Change Persons and Booth Cashiers	1,870	\$26,400	9.16
47-5032	Explosives Workers, Ordnance Handling Experts, and Blasters	420	\$50,890	8.18
47-5071	Roustabouts, Oil and Gas	3,370	\$44,660	7.94
47-5013	Service Unit Operators, Oil and Gas	2,730	\$56,330	6.92
17-2171	Petroleum Engineers	1,470	\$144,160	6.62
17-2021	Agricultural Engineers	110	\$62,890	6.56
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	2,050	\$83,850	6.01
47-5081	HelpersExtraction Workers	420	\$50,350	5.6
11-9071	Gambling Managers	270	\$66,670	5.15
49-9043	Maintenance Workers, Machinery	3,500	\$57,840	5.14
49-9081	Wind Turbine Service Technicians	540	\$53,870	5.03
49-3011	Aircraft Mechanics and Service Technicians	6090	\$75,590	4.18
19-4043	Geological Technicians, Except Hydrologic Technicians	400	\$73,300	4.05

## **Key Occupations**

Table 13: Employment Location Quotients (LQ)

SOC Code	Occupational Title	Employment	Annual Average Wage	Employment LQ
47-5011	Derrick Operators, Oil and Gas	470	\$54,200	3.94
53-7073	Wellhead Pumpers	580	\$59,810	3.68
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	1400	\$31,190	3.62
45-2011	Agricultural Inspectors	540	\$42,820	3.56
29-9021	Health Information Technologists and Medical Registrars	1340	\$49,340	3.49
39-1013	First-Line Supervisors of Gambling Services Workers	830	\$44,000	3.49
47-5051	Rock Splitters, Quarry	140	\$30,640	3.3
43-4141	New Accounts Clerks	1,610	\$37,320	3.28
51-8092	Gas Plant Operators	480	\$70,670	3.09

Source: Bureau of Labor Statistics, Occupational Employment and Wage Statistics (OEWS).

## Industry and Occupational Employment Projections

Table 14: 2020-2030 Industry Employment Projections

NAICS Code	Industry	2020 Employment	2030 Employment	Change	Percent Change
000000	Total All Industries	1,721,170	1,900,560	179,390	10.4%
000067	Self Employed and Unpaid Family Workers, All Jobs	91,550	91,180	-370	-0.4%
110000	Agriculture, Forestry, Fishing and Hunting	9,360	10,430	1,070	11.4%
210000	Mining	31,370	43,270	11,900	37.9%
211000	Oil and Gas Extraction	13,390	19,460	6,070	45.4%
212000	Mining (except Oil and Gas)	2,240	2,310	60	2.9%
213000	Support Activities for Mining	15,740	21,510	5,770	36.6%
220000	Utilities	9,550	11,130	1,580	16.6%
230000	Construction	78,790	86,150	7,360	9.3%
236000	Construction of Buildings	14,000	15,130	1,130	8.1%
237000	Heavy and Civil Engineering Construction	16,660	21,140	4,480	26.9%
238000	Specialty Trade Contractors	48,130	49,880	1,750	3.6%
310000	Manufacturing	131,230	146,900	15,670	11.9%
311000	Food Manufacturing	18,210	18,110	-100	-0.5%
312000	Beverage and Tobacco Product Manufacturing	2,520	2,740	230	9.0%
313000	Textile Mills	160	120	-50	-28.7%
314000	Textile Product Mills	520	460	-60	-12.2%
315000	Apparel Manufacturing	480	140	-340	-70.3%
316000	Leather and Allied Product Manufacturing	120	200	80	63.9%
321000	Wood Product Manufacturing	1,840	1,560	-280	-15.3%
322000	Paper Manufacturing	3430	3,520	90	2.7%
323000	Printing and Related Support Activities	2,180	2,350	170	8.0%

Table 14: 2020-2030 Industry Employment Projections

NAICS Code	Industry	2020 Employment	2030 Employment	Change	Percent Change
324000	Petroleum and Coal Products Manufacturing	2460	4,070	1,610	65.5%
325000	Chemical Manufacturing	3,660	3,790	130	3.4%
326000	Plastics and Rubber Products Manufacturing	9360	10,470	1,110	11.9%
327000	Nonmetallic Mineral Product Manufacturing	6,970	7,330	350	5.0%
331000	Primary Metal Manufacturing	3230	4,030	800	24.8%
332000	Fabricated Metal Product Manufacturing	21,110	23,320	2,210	10.5%
333000	Machinery Manufacturing	23270	30,450	7,190	30.9%
334000	Computer and Electronic Product Manufacturing	3,720	3,740	20	0.4%
335000	Electrical Equipment, Appliance, and Component Manufacturing	3260	3,640	380	11.5%
336000	Transportation Equipment Manufacturing	19,480	21,200	1,720	8.8%
337000	Furniture and Related Product Manufacturing	2180	2,060	-130	-5.8%
339000	Miscellaneous Manufacturing	3,070	3,620	550	17.9%
420000	Wholesale Trade	55,140	57,270	2,130	3.9%
423000	Merchant Wholesalers, Durable Goods	27,510	29,160	1,660	1.1%
424000	Merchant Wholesalers, Nondurable Goods	20,790	21,030	230	1.1%
425000	Wholesale Electronic Markets and Agents and Brokers	6,840	7,080	240	3.5%
440000	Retail Trade	176,370	184,480	8,110	4.6%
441000	Motor Vehicle and Parts Dealers	25,040	27,810	2,770	11.1%
442000	Furniture and Home Furnishings Stores	4,300	5,060	760	17.7%
443000	Electronics and Appliance Stores	4,620	5,560	940	20.4%
444000	Building Material and Garden Equipment and Supplies Dealers	18,670	20,820	2,150	11.5%
445000	Food and Beverage Stores	22,810	22,170	-640	-2.8%
446000	Health and Personal Care Stores	10,510	11,900	1,390	13.3%

Table 14: 2020-2030 Industry Employment Projections

NAICS Code	Industry	2020 Employment	2030 Employment	Change	Percent Change
447000	Gasoline Stations	18,000	17,070	-930	-5.2%
448000	Clothing and Clothing Accessories Stores	8,480	10,610	2,130	25.1%
451000	Sporting Goods, Hobby, Book, and Music Stores	5,840	5,890	50	0.9%
452000	General Merchandise Stores	43,180	46,970	3,790	8.8%
453000	Miscellaneous Store Retailers	12,460	8,610	-3,850	-30.9%
454000	Nonstore Retailers	2,470	2,010	-450	-18.3%
480000	Transportation and Warehousing	63,190	63,770	580	0.9%
481000	Air Transportation	1,340	1,560	230	16.8%
482000	Rail Transportation	2,320	2,320	0	0.0%
484000	Truck Transportation	19,200	20,000	800	4.2%
485000	Transit and Ground Passenger Transportation	910	1,220	310	33.5%
486000	Pipeline Transportation	3,330	3,790	460	13.8%
487000	Scenic and Sightseeing Transportation	40	70	30	67.5%
488000	Support Activities for Transportation	6,680	7,680	1,000	14.9%
492000	Couriers and Messengers	7,990	7,730	-250	-3.2%
493000	Warehousing and Storage	21,380	19,400	-1,980	-9.3%
510000	Information	18,220	20,980	2,750	15.1%
511000	Publishing Industries (except Internet)	3,270	4,000	730	22.4%
512000	Motion Picture and Sound Recording Industries	1,160	1,880	720	62.0%
515000	Broadcasting (except Internet)	2620	2,810	190	7.3%
517000	Telecommunications	9,010	9,980	970	10.8%
518000	Data Processing, Hosting and Related Services	1,420	1,450	40	2.7%
519000	Other Information Services	750	850	100	13.5%

Table 14: 2020-2030 Industry Employment Projections

NAICS Code	Industry	2020 Employment	2030 Employment	Change	Percent Change
520000	Finance and Insurance	56,810	56,400	-420	-0.7%
521000	Monetary Authorities Central Bank	N/D	N/D	N/D	N/D
522000	Credit Intermediation and Related Activities	31,410	35,780	4,370	13.9%
523000	Securities, Commodity Contracts, and Other Financial Investments and Related Activities	4,540	4,800	260	5.7%
524000	Insurance Carriers and Related Activities	20,770	15,730	-5,040	-24.3%
525000	Funds, Trusts, and Other Financial Vehicles	N/D	N/D	N/D	N/D
530000	Real Estate and Rental and Leasing	19,970	21,640	1,670	8.4%
531000	Real Estate	12,460	12,570	120	0.9%
532000	Rental and Leasing Services	7,360	8,930	1,570	21.3%
533000	Lessors of Nonfinancial Intangible Assets (except Copyrighted Works)	150	140	-10	-6.1%
540000	Professional, Scientific, and Technical Services	73,490	83,960	10,480	14.3%
550000	Management of Companies and Enterprises	20,520	19,390	-1,130	-5.5%
560000	Administrative and Support and Waste Management and Remediation Services	91,280	109,120	17,840	19.6%
561000	Administrative and Support Services	87,600	105,210	17,610	20.1%
562000	Waste Management and Remediation Service	3,680	3,910	230	6.4%
610000	Educational Services	147,180	156,600	9,420	6.4%
620000	Health Care and Social Assistance	230,430	269,310	38,880	16.9%
621000	Ambulatory Health Care Services	75,060	96,670	21,610	28.8%
622000	Hospitals	85,990	96,250	10,250	11.9%
623000	Nursing and Residential Care Facilities	33,580	36,280	2,710	8.1%
624000	Social Assistance	35,810	40,120	4,310	12.0%
710000	Arts, Entertainment, and Recreation	34,500	51,930	17,430	50.5%
711000	Performing Arts, Spectator Sports, and Related Industries	2,290	3,000	720	31.5%

Table 14: 2020-2030 Industry Employment Projections

NAICS Code	Industry	2020 Employment	2030 Employment	Change	Percent Change
712000	Museums, Historical Sites, and Similar Institution	1,360	2,140	780	57.2%
713000	Amusement, Gambling, and Recreation Industries	30,860	46,790	15,930	51.6%
720000	Accommodation and Food Services	141,440	177,440	36,000	25.5%
721000	Accommodation, including Hotels and Motels	11,920	15,970	4,050	33.9%
722000	Food Services and Drinking Places	129,520	161,480	31,950	24.7%
810000	Other Services (except Government)	66,100	70,360	4,270	6.5%
811000	Repair and Maintenance	14,680	16,370	1,680	11.5%
812000	Personal and Laundry Services	11,480	12,710	1,230	10.7%
813000	Religious, Grantmaking, Civic, Professional, and Similar Organizations	38,870	39,830	960	2.5%
814000	Private Households	1,060	1,460	400	37.6%
900000	Government	174,690	168,860	-5,830	-3.3%
910000	Total Federal Government Employment	51,040	47,170	-3,880	-7.6%
999100	Federal Government, Excluding Post Office	44,290	40,140	-4,140	-9.4%
491100	Postal Service	6,760	7,020	270	3.9%
920000	State Government, Excluding Education and Hospitals	34,460	28,080	-6,370	-18.5%
930000	Local Government, Excluding Education and Hospitals	89,190	93,610	4,420	5.0%

<sup>\*</sup>N/D: Not Disclosable -- data do not meet BLS or State agency disclosure standards.

Source: Employment Projections (EP) program, Oklahoma Employment Security Commission, Economic Research & Analysis Division, <u>Industry and Occupational Employment Projections (oklahoma.gov)</u>.

## Industry and Occupational Employment Projections

Table 15: 2020-2030 Occupational Employment Projections

SOC Code	Occupation	2020 Employment	2030 Employment		Percent Change	Total Annual Openings		Typical Entry Level Education		Typical On-The- Job Training
00-0000	Total, All Occupations	1,721,170	1,900,560	179,390	10.4	215,380	\$37,110			
11-0000	Management Occupations	98,950	111,000	12,050	12.2	9,520	\$86,930			
11-1000	Top Executives	30,410	33,410	3,000	9.9	2,850	N/A			
11-1011	Chief Executives	4,280	4,040	-240	-5.7	260	\$125,880	Bachelor's degree	5 years or more	None
11-1021	General and Operations Managers	25,170	28,370	3,200	12.7	2,520	\$83,430	Bachelor's degree	5 years or more	None
11-1031	Legislators	960	1,000	40	4.2	80	N/A	Bachelor's degree	Less than 5 years	None
11-2000	Advertising, Marketing, Promotions, Public Relations, and Sales Managers	4,780	5,260	480	10.1	470	N/A			
11-2011	Advertising and Promotions Managers	160	160	-10	-3.7	10	\$89,330	Bachelor's degree	Less than 5 years	None
11-2021	Marketing Managers	1,370	1,550	180	12.7	140	\$114,040	Bachelor's degree	5 years or more	None
11-2022	Sales Managers	2,400	2,650	250	10.2	230	\$97,940	Bachelor's degree	Less than 5 years	None
11-2030	Public Relations and Fundraising Managers	840	910	70	8.1	80	\$92,300	Bachelor's degree	5 years or more	None
11-3000	Operations Specialties Managers	22,140	25,320	3,180	14.4	2,080	N/A			
11-3010	Administrative Services and Facilities Managers	6,390	7,160	770	12.1	610	\$86,730	Bachelor's degree	Less than 5 years	None
11-3021	Computer and Information Systems Managers	3,770	4,180	410	10.8	330	\$117,130	Bachelor's degree	5 years or more	None
11-3031	Financial Managers	6,270	7,660	1390	22.1	630	\$107,160	Bachelor's degree	5 years or more	None
11-3051	Industrial Production Managers	1,720	1,970	250	14.6	150	\$105,070	Bachelor's degree	5 years or more	None
11-3061	Purchasing Managers	530	580	50	9.1	50	\$102,570	Bachelor's degree	5 years or more	None
11-3071	Transportation, Storage, and Distribution Managers	1,280	1,370	90	7.3	110	\$84,670	High school diploma or equivalent	5 years or more	None
11-3111	Compensation and Benefits Managers	240	250	10	2.9	20	\$115,310	Bachelor's degree	5 years or more	None
11-3121	Human Resources Managers	1,530	1,680	160	10.1	140	\$96,010	Bachelor's degree	5 years or more	None
11-3131	Training and Development Managers	410	470	60	14	50	\$83,580	Bachelor's degree	5 years or more	None
11-9000	Other Management Occupations	41,630	47,010	5,390	12.9	4,130	N/A			
11-9013	Farmers, Ranchers, and Other Agricultural Managers	6,110	6,390	280	4.6	630	\$58,590	High school diploma or equivalent	5 years or more	None
11-9021	Construction Managers	3,960	4,600	640	16.1	370	\$83,480	Bachelor's degree	None	Moderate-term on-the-job training

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change		Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
11-9031	Education Administrators, Preschool and Childcare Center/Program	970	990	30	2.8	70	\$40,260	Bachelor's degree	Less than 5 years	None
11-9032	Education Administrators, Elementary and Secondary School	3,230	3,460	230	7	260	\$77,160	Master's degree	5 years or more	None
11-9033	Education Administrators, Postsecondary	1840	1950	110	6	150	\$95,310	Master's degree	Less than 5 years	None
11-9039	Education Administrators, All Other	460	490	30	6.7	40	\$78,790	Bachelor's degree	Less than 5 years	None
11-9041	Architectural and Engineering Managers	2210	2460	250	11.1	180	\$136,320	Bachelor's degree	5 years or more	None
11-9051	Food Service Managers	4,220	4,960	750	17.8	580	\$53,860	High school diploma or equivalent	Less than 5 years	None
11-9071	Gaming Managers	280	370	90	31.3	30	\$63,440	High school diploma or equivalent	Less than 5 years	None
11-9081	Lodging Managers	460	540	80	17.6	60	\$48,360	High school diploma or equivalent	Less than 5 years	None
11-9111	Medical and Health Services Managers	7400	9850	2450	33.1	900	\$83,040	Bachelor's degree	Less than 5 years	None
11-9121	Natural Sciences Managers	310	320	20	6.2	20	\$109,480	Bachelor's degree	5 years or more	None
11-9131	Postmasters and Mail Superintendents	240	250	10	4.7	20	\$78,890	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
11-9141	Property, Real Estate, and Community Association Managers	4,410	4,570	160	3.7	360	\$67,840	High school diploma or equivalent	Less than 5 years	None
11-9151	Social and Community Service Managers	1610	1720	110	6.9	150	\$59,010	Bachelor's degree	Less than 5 years	None
11-9161	Emergency Management Directors	270	280	10	5.2	20	\$51,060	Bachelor's degree	5 years or more	None
11-9171	Funeral Home Managers	240	230	-10	-5	20	\$56,990	Associate's degree	Less than 5 years	None
11-9198	Personal Service Managers; Entertainment & Recreation Managers, Except Gambling; and Managers, All Other	3,430	3,590	160	4.8	270	\$91,030	Bachelor's degree	Less than 5 years	None
13-0000	Business and Financial Operations Occupations	93,600	100,490	6,890	7.4	8,970	\$98,270			
13-1000	Business Operations Specialists	62,970	66,820	3,840	6.1	6,000	\$62,530			
13-1020	Buyers and Purchasing Agents	5160	5030	-130	-2.6	490	\$59,760	Bachelor's degree	None	Moderate-term on-the-job training
13-1031	Claims Adjusters, Examiners, and Investigators	4,400	3,390	-1000	-22.8	190	\$63,490	High school diploma or equivalent	None	Long-term on-the- job training
13-1041	Compliance Officers	4870	5150	270	5.6	420	\$54,820	Bachelor's degree	None	Moderate-term on-the-job training
13-1051	Cost Estimators	2,190	2,280	100	4.4	210	\$60,040	Bachelor's degree	None	Moderate-term on-the-job training
13-1071	Human Resources Specialists	7690	8550	870	11.3	850	\$52,350	Bachelor's degree	None	None
13-1075	Labor Relations Specialists	1,880	1,680	-200	-10.7	150	\$25,580	Bachelor's degree	Less than 5 years	None

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change		Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
13-1081	Logisticians	3430	4080	650	18.8	390	\$75,540	Bachelor's degree	None	None
13-1111	Management Analysts	6,770	7,750	990	14.6	750	\$77,490	Bachelor's degree	Less than 5 years	None
13-1121	Meeting, Convention, and Event Planners	1430	1610	170	11.9	170	\$46,040	Bachelor's degree	None	None
13-1131	Fundraisers	1,230	1,340	110	9.2	130	\$57,250	Bachelor's degree	None	None
13-1141	Compensation, Benefits, and Job Analysis Specialists	1060	1150	90	8.7	110	\$52,280	Bachelor's degree	Less than 5 years	None
13-1151	Training and Development Specialists	4,480	5,030	550	12.3	490	\$50,410	Bachelor's degree	Less than 5 years	None
13-1161	Market Research Analysts and Marketing Specialists	5380	6720	1340	24.9	720	\$53,900	Bachelor's degree	None	None
13-1198	Project Management Specialists and Business Operations Specialists, All Other	12,860	12,930	70	0.5	940	\$72,540	Bachelor's degree	None	None
13-2000	Financial Specialists	30,630	33,670	3,040	9.9	2,970	N/A			
13-2011	Accountants and Auditors	15,970	17,780	1810	11.4	1650	\$66,860	Bachelor's degree	None	None
13-2020	Property Appraisers and Assessors	1,070	1,110	40	3.8	90	\$45,020	Bachelor's degree	None	Long-term on-the- job training
13-2031	Budget Analysts	600	580	-10	-2	40	\$68,280	Bachelor's degree	None	None
13-2041	Credit Analysts	920	950	20	2.4	80	\$55,410	Bachelor's degree	None	None
13-2052	Personal Financial Advisors	1,550	1,660	110	6.9	130	\$64,460	Bachelor's degree	None	Long-term on-the- job training
13-2053	Insurance Underwriters	780	600	-180	-23.4	30	\$62,060	Bachelor's degree	None	Moderate-term on-the-job training
13-2061	Financial Examiners	550	700	150	26.8	60	\$69,150	Bachelor's degree	None	Long-term on-the- job training
13-2071	Credit Counselors	430	520	80	18.7	40	\$45,670	Bachelor's degree	None	Moderate-term on-the-job training
13-2072	Loan Officers	4,280	5,030	760	17.7	430	\$66,390	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training
13-2081	Tax Examiners and Collectors, and Revenue Agents	380	350	-30	-8.1	30	\$38,760	Bachelor's degree	None	Moderate-term on-the-job training
13-2082	Tax Preparers	1,210	1,290	80	6.5	150	\$38,370	High school diploma or equivalent	None	Moderate-term on-the-job training
13-2098	Financial and Investment Analysts, Financial Risk Specialists, and Financial Specialists, All Other	2,880	3,100	220	7.6	250	\$74,050	Bachelor's degree	None	None
15-0000	Computer and Mathematical Occupations	36,470	41,600	5,120	14.1	3,250	\$71,070			
15-1200	Computer Occupations	34,450	39,050	4,600	13.3	3,050	N/A			
15-1211	Computer Systems Analysts	3,550	3,900	350	9.8	290	\$79,600	Bachelor's degree	None	None

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change		Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
15-1231	Computer Network Support Specialists	2,430	2,680	250	10.2	210	\$58,550	Associate's degree	None	None
15-1232	Computer User Support Specialists	6,470	7,070	600	9.3	550	\$47,660	Some college, no degree	None	None
15-1241	Computer Network Architects	1,380	1,500	120	8.7	100	\$92,720	Bachelor's degree	5 years or more	None
15-1244	Network and Computer Systems Administrators	2,620	2,880	260	10	200	\$72,700	Bachelor's degree	None	None
15-1245	Database Administrators and Architects	2,620	2,850	230	8.8	220	\$73,800	Bachelor's degree	None	None
15-1251	Computer Programmers	1,100	1,000	-100	-9.3	60	\$77,500	Bachelor's degree	None	None
15-1256	Software Developers and Software Quality Assurance Analysts and Testers	9,320	11,560	2,240	24	980	\$87,660	Bachelor's degree	None	None
15-1257	Web Developers and Digital Interface Designers	990	1,080	90	9.4	80	\$57,770	Bachelor's degree	None	None
15-1299	Computer Occupations, All Other	2,730	2,940	200	7.5	230	\$81,840	Bachelor's degree	None	None
15-2000	Mathematical Science Occupations	2,020	2,550	530	26.1	210	N/A			
15-2031	Operations Research Analysts	690	880	190	27.3	70	\$75,760	Bachelor's degree	None	None
15-2041	Statisticians	310	390	80	26.2	30	\$59,340	Master's degree	None	None
15-2098	Data Scientists and Mathematical Science Occupations, All Other	960	1,220	260	27.4	100	\$64,880	Bachelor's degree	None	None
17-0000	Architecture and Engineering Occupations	28,250	31,860	3,600	12.8	2,550	\$79,910			
17-1000	Architects, Surveyors, and Cartographers	1,730	1,920	190	10.8	160	N/A			
17-1011	Architects, Except Landscape and Naval	800	870	70	9.2	70	\$74,020	Bachelor's degree	None	Internship /residency
17-1022	Surveyors	580	660	90	14.7	60	\$60,900	Bachelor's degree	None	Internship /residency
17-2000	Engineers	18,240	20,920	2,680	14.7	1,500	N/A			
17-2011	Aerospace Engineers	1,670	1,820	150	9.3	110	\$100,020	Bachelor's degree	None	None
17-2041	Chemical Engineers	290	350	60	22.1	20	\$111,680	Bachelor's degree	None	None
17-2051	Civil Engineers	2,030	2,310	290	14.1	180	\$95,380	Bachelor's degree	None	None
17-2061	Computer Hardware Engineers	290	300	10	2.1	20	\$120,300	Bachelor's degree	None	None
17-2071	Electrical Engineers	1,740	2,020	280	16.2	150	\$99,680	Bachelor's degree	None	None
17-2072	Electronics Engineers, Except Computer	1,890	2,020	130	6.7	140	\$94,280	Bachelor's degree	None	None

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change		Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
17-2081	Environmental Engineers	680	740	60	8.5	60	\$91,560	Bachelor's degree	None	None
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	710	840	130	17.8	60	\$88,600	Bachelor's degree	None	None
17-2112	Industrial Engineers	2,000	2,490	490	24.3	190	\$85,060	Bachelor's degree	None	None
17-2131	Materials Engineers	280	320	40	15.5	20	\$89,410	Bachelor's degree	None	None
17-2141	Mechanical Engineers	1,990	2,370	380	19.3	170	\$88,780	Bachelor's degree	None	None
17-2171	Petroleum Engineers	1,780	2,270	480	27.1	180	\$149,590	Bachelor's degree	None	None
17-2199	Engineers, All Other	2,550	2,700	150	5.7	180	\$144,160	Bachelor's degree	None	None
17-3000	Drafters, Engineering Technicians, and Mapping Technicians	8,290	9,020	740	8.9	900	N/A			
17-3011	Architectural and Civil Drafters	1,320	1,370	50	3.8	130	\$56,010	Associate's degree	None	None
17-3012	Electrical and Electronics Drafters	350	410	60	15.9	40	\$58,470	Associate's degree	None	None
17-3013	Mechanical Drafters	800	850	50	6.4	80	\$61,440	Associate's degree	None	None
17-3021	Aerospace Engineering and Operations Technicians	170	210	40	22.5	20	\$52,330	Associate's degree	None	None
17-3022	Civil Engineering Technicians	400	430	30	8.2	40	\$54,770	Associate's degree	None	None
17-3023	Electrical and Electronics Engineering Technicians	1,360	1,470	110	8.2	140	\$67,430	Associate's degree	None	None
17-3024	Electro-Mechanical Technicians	70	90	20	23.9	10	\$60,910	Associate's degree	None	None
17-3025	Environmental Engineering Technicians	550	540	0	-0.2	50	\$54,330	Associate's degree	None	None
17-3026	Industrial Engineering Technicians	680	710	30	3.8	70	\$68,270	Associate's degree	None	None
17-3027	Mechanical Engineering Technicians	340	420	90	25.4	40	\$61,370	Associate's degree	None	None
17-3031	Surveying and Mapping Technicians	870	990	120	13.8	130	\$45,850	High school diploma or equivalent	None	Moderate- term on- the-job training
17-3098	Calibration and Engineering Technologists and Technicians, Except Drafters, All Other	1,330	1,480	150	11.2	140	\$61,600	Associate's degree	None	None
19-0000	Life, Physical, and Social Science Occupations	11,270	12,450	1,180	10.5	1,230	\$64,830			
19-1000	Life Scientists	2,070	2,200	130	6.1	190	N/A			
19-1012	Food Scientists and Technologists	80	90	10	12.7	10	\$71,490	Bachelor's degree	None	None
19-1013	Soil and Plant Scientists	100	100	0	-4	10	\$75,460	Bachelor's degree	None	None

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change		Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
19-1021	Biochemists and Biophysicists	90	110	20	17.8	10	N/A	Doctoral or professional degree	None	None
19-1022	Microbiologists	150	180	30	23.3	20	\$50,250	Bachelor's degree	None	None
19-1029	Biological Scientists, All Other	480	460	-20	-4.6	40	\$64,020	Bachelor's degree	None	None
19-1031	Conservation Scientists	290	290	10	1.7	30	\$66,140	Bachelor's degree	None	None
19-1041	Epidemiologists	90	110	20	19.3	10	\$64,780	Master's degree	None	None
19-1042	Medical Scientists, Except Epidemiologists	560	640	80	14.6	50	\$73,530	Doctoral or professional degree	None	None
19-2000	Physical Scientists	2,160	2,530	370	17.4	250	N/A			
19-2021	Atmospheric and Space Scientists	180	180	0	0.6	20	\$104,770	Bachelor's degree	None	None
19-2031	Chemists	360	420	60	16.9	40	\$78,030	Bachelor's degree	None	None
19-2041	Environmental Scientists and Specialists, Including Health	570	620	50	8	60	\$63,410	Bachelor's degree	None	None
19-2042	Geoscientists, Except Hydrologists and Geographers	830	1,090	260	31.1	120	\$126,120	Bachelor's degree	None	None
19-2099	Physical Scientists, All Other	110	110	0	1.9	10	\$94,280	Bachelor's degree	None	None
19-3000	Social Scientists and Related Workers	2,060	2,160	100	5.1	160	N/A			
19-3031	Clinical, Counseling, and School Psychologists	570	630	60	9.6	50	\$73,490	Doctoral or professional degree	None	Internship /residency
19-3039	Psychologists, All Other	390	390	0	-0.8	30	\$97,320	Master's degree	None	Internship /residency
19-3051	Urban and Regional Planners	250	270	20	8.4	20	\$60,860	Master's degree	None	None
19-3099	Social Scientists and Related Workers, All Other	210	190	-10	-6.8	20	\$76,720	Bachelor's degree	None	None
19-4000	Life, Physical, and Social Science Technicians	3640	4060	420	11.6	500	N/A			
19-4010	Agricultural and Food Science Technicians	220	220	0	1.4	30	\$30,600	Associate's degree	None	Moderate- term on- the-job training
19-4021	Biological Technicians	610	610	10	1	80	\$44,600	Bachelor's degree	None	None
19-4031	Chemical Technicians	660	770	110	16.9	90	\$52,970	Associate's degree	None	Moderate- term on- the-job training
19-4042	Environmental Science and Protection Technicians, Including Health	330	370	50	14.8	50	\$41,620	Associate's degree	None	None
19-4045	Geological and Hydrologic Technicians	720	920	200	27.8	120	\$65,460	Associate's degree	None	Moderate- term on- the-job training

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change		Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
19-4061	Social Science Research Assistants	210	220	20	9.3	30	\$35,920	Bachelor's degree	None	None
19-4071	Forest and Conservation Technicians	110	110	-10	-5.3	10	\$49,430	Associate's degree	None	None
19-4092	Forensic Science Technicians	210	210	0	0.5	30	\$61,400	Bachelor's degree	None	Moderate- term on- the-job training
19-4099	Life, Physical, and Social Science Technicians, All Other	580	620	40	6.7	80	\$62,260	Associate's degree	None	None
19-5000	Occupational Health and Safety Specialists and Technicians	1,340	1,500	160	11.6	120	N/A			
19-5011	Occupational Health and Safety Specialists	1,230	1,370	140	11.1	110	\$71,210	Bachelor's degree	None	None
19-5012	Occupational Health and Safety Technicians	110	130	20	17.4	10	\$48,960	High school diploma or equivalent	None	Moderate- term on- the-job training
21-0000	Community and Social Service Occupations	29,340	31,370	2,030	6.9	3080	\$41,170			
21-1000	Counselors, Social Workers, and Other Community and Social Service Specialists	27,430	29,470	2,030	7.4	2,880	N/A			
21-1012	Educational, Guidance, School, and Vocational Counselors	3,790	4,140	350	9.2	400	\$47,060	Master's degree	None	None
21-1013	Marriage and Family Therapists	740	850	100	13.7	80	\$55,450	Master's degree	None	Internship /residency
21-1015	Rehabilitation Counselors	1,860	1,940	70	4	180	\$25,010	Master's degree	None	None
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	4,200	5,230	1,030	24.6	540	\$44,290	Bachelor's degree	None	None
21-1021	Child, Family, and School Social Workers	6,580	6,140	-440	-6.7	540	\$38,740	Bachelor's degree	None	None
21-1022	Healthcare Social Workers	2,430	2,770	350	14.4	270	\$50,580	Master's degree	None	Internship /residency
21-1023	Mental Health and Substance Abuse Social Workers	1,360	1,530	170	12.7	150	\$36,680	Master's degree	None	Internship /residency
21-1029	Social Workers, All Other	520	480	-40	-7.4	40	\$68,280	Bachelor's degree	None	None
21-1091	Health Educators	1,070	1,170	100	9.6	130	\$58,960	Bachelor's degree	None	None
21-1092	Probation Officers and Correctional Treatment Specialists	1,080	1,000	-80	-7.1	80	\$40,830	Bachelor's degree	None	Short-term on-the-job training
21-1093	Social and Human Service Assistants	2,050	2,230	180	8.6	270	\$32,080	High school diploma or equivalent	None	Short-term on-the-job training
21-1094	Community Health Workers	740	860	120	15.6	90	\$44,010	High school diploma or equivalent	None	Short-term on-the-job training
21-2000	Religious Workers	1,910	1,910	0	-0.2	200	N/A			
21-2011	Clergy	1,120	1,150	30	2.4	120	\$49,320	Bachelor's degree	None	Moderate- term on- the-job training

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change		Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
21-2021	Directors, Religious Activities and Education	580	560	-20	-3.5	60	\$30,540	Bachelor's degree	Less than 5 years	None
21-2099	Religious Workers, All Other	210	200	-10	-4.7	30	\$22,640	Bachelor's degree	None	None
23-0000	Legal Occupations	14,190	16,070	1,880	13.2	1160	\$73,540			
23-1000	Lawyers, Judges, and Related Workers	9,750	10,830	1,080	11.1	590	N/A			
23-1011	Lawyers	8,550	9,780	1,230	14.3	550	\$98,970	Doctoral or professional degree	None	None
23-1012	Judicial Law Clerks	80	70	-10	-9.1	0	\$36,410	Doctoral or professional degree	None	None
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	130	120	-20	-12.7	0	\$103,390	Doctoral or professional degree	5 years or more	Short-term on-the-job training
23-1022	Arbitrators, Mediators, and Conciliators	60	60	10	8.9	0	\$48,630	Bachelor's degree	Less than 5 years	Moderate- term on- the-job training
23-1023	Judges, Magistrate Judges, and Magistrates	930	800	-120	-13.3	30	\$63,710	Doctoral or professional degree	5 years or more	Short-term on-the-job training
23-2000	Legal Support Workers	4,450	5,240	800	17.9	580	N/A			
23-2011	Paralegals and Legal Assistants	2,800	3,360	560	19.8	380	\$42,050	Associate's degree	None	None
23-2093	Title Examiners, Abstractors, and Searchers	1,440	1,690	260	17.9	180	\$52,820	High school diploma or equivalent	None	Moderate- term on- the-job training
23-2099	Legal Support Workers, All Other	210	190	-20	-8.3	20	\$50,400	Associate's degree	None	None
25-0000	Education, Training, and Library Occupations	96,230	104,280	8,050	8.4	9,420	\$43,040			
25-1000	Postsecondary Teachers	14,790	16,670	1,880	12.7	1,630	N/A			
25-1011	Business Teachers, Postsecondary	770	800	30	4.3	80	\$63,060	Doctoral or professional degree	None	None
25-1022	Mathematical Science Teachers, Postsecondary	500	540	40	7.4	50	\$58,130	Doctoral or professional degree	None	None
25-1032	Engineering Teachers, Postsecondary	260	290	40	14	30	\$67,150	Doctoral or professional degree	None	None
25-1052	Chemistry Teachers, Postsecondary	190	200	10	6.3	20	\$64,200	Doctoral or professional degree	None	None
25-1054	Physics Teachers, Postsecondary	70	80	0	5.4	10	\$76,220	Doctoral or professional degree	None	None
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	70	70	0	4.6	10	\$68,020	Doctoral or professional degree	None	None
25-1063	Economics Teachers, Postsecondary	60	60	0	6.7	10	\$79,230	Doctoral or professional degree	None	None
25-1065	Political Science Teachers, Postsecondary	100	100	10	6.1	10	\$62,570	Doctoral or professional degree	None	None
25-1066	Psychology Teachers, Postsecondary	310	330	30	8.1	30	\$56,080	Doctoral or professional degree	None	None

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change		Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
25-1067	Sociology Teachers, Postsecondary	90	90	10	7	10	\$52,370	Doctoral or professional degree	None	None
25-1069	Social Sciences Teachers, Postsecondary, All Other	90	90	10	9.4	10	\$55,710	Doctoral or professional degree	None	None
25-1071	Health Specialties Teachers, Postsecondary	4,660	5,650	990	21.2	570	\$75,380	Doctoral or professional degree	Less than 5 years	None
25-1072	Nursing Instructors and Teachers, Postsecondary	600	740	150	24.5	80	\$62,420	Doctoral or professional degree	Less than 5 years	None
25-1081	Education Teachers, Postsecondary	430	450	30	5.8	40	\$60,410	Doctoral or professional degree	Less than 5 years	None
25-1121	Art, Drama, and Music Teachers, Postsecondary	880	940	60	6.9	90	\$56,840	Master's degree	None	None
25-1122	Communications Teachers, Postsecondary	250	270	20	8.1	30	\$56,930	Doctoral or professional degree	None	None
25-1123	English Language and Literature Teachers, Postsecondary	570	620	40	7.3	60	\$50,120	Doctoral or professional degree	None	None
25-1124	Foreign Language and Literature Teachers, Postsecondary	80	80	0	5.3	10	\$49,610	Doctoral or professional degree	None	None
25-1125	History Teachers, Postsecondary	220	240	20	8.3	20	\$58,050	Doctoral or professional degree	None	None
25-1126	Philosophy and Religion Teachers, Postsecondary	180	190	10	8	20	\$57,030	Doctoral or professional degree	None	None
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	200	210	10	5.5	20	\$60,690	Doctoral or professional degree	None	None
25-1194	Vocational Education Teachers, Postsecondary	2,070	2,310	240	11.7	220	\$56,270	Bachelor's degree	Less than 5 years	None
25-1199	Postsecondary Teachers, All Other	1,050	1,090	40	4	100	\$46,730	Doctoral or professional degree	None	None
25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	50,830	54,520	3,690	7.3	4,310	N/A			
25-2011	Preschool Teachers, Except Special Education	7,030	7,700	670	9.5	800	\$29,270	Associate's degree	None	None
25-2012	Kindergarten Teachers, Except Special Education	1,720	1,840	130	7.3	190	\$44,940	Bachelor's degree	None	None
25-2021	Elementary School Teachers, Except Special Education	16,130	17,210	1,080	6.7	1,290	\$45,810	Bachelor's degree	None	None
25-2022	Middle School Teachers, Except Special and Career/Technical Education	7,280	7,770	490	6.8	580	\$46,600	Bachelor's degree	None	None
25-2023	Career/Technical Education Teachers, Middle School	160	170	10	6.4	10	\$45,150	Bachelor's degree	Less than 5 years	None
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	13,060	13,990	930	7.1	1000	\$48,370	Bachelor's degree	None	None
25-2032	Career/Technical Education Teachers, Secondary School	830	890	60	7.2	60	\$47,020	Bachelor's degree	Less than 5 years	None
25-2051	Special Education Teachers, Preschool	100	110	10	9	10	\$37,880	Bachelor's degree	None	None
25-2052	Special Education Teachers, Kindergarten and Elementary School	1,910	2,040	130	6.9	160	\$48,990	Bachelor's degree	None	None

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change		Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
25-2057	Special Education Teachers, Middle School	860	920	60	6.7	70	\$49,170	Bachelor's degree	None	None
25-2058	Special Education Teachers, Secondary School	1,700	1,820	120	6.8	140	\$48,890	Bachelor's degree	None	None
25-2059	Special Education Teachers, All Other	60	70	10	8.3	0	\$43,780	Bachelor's degree	None	None
25-3000	Other Teachers and Instructors	10,840	12,140	1,290	11.9	1,430	N/A			
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	520	520	0	0.4	60	\$39,410	Bachelor's degree	None	None
25-3021	Self-Enrichment Education Teachers	2,690	3,150	460	17.1	380	\$36,570	High school diploma or equivalent	Less than 5 years	None
25-3031	Substitute Teachers, Short-Term	4,870	5,440	570	11.8	640	\$19,140	Bachelor's degree	None	None
25-3097	Teachers and Instructors, All Other, Except Substitute Teachers	2,770	3,030	260	9.3	350	\$43,340	Bachelor's degree	None	None
25-4000	Librarians, Curators, and Archivists	3,340	3,520	170	5.2	390	N/A			
25-4011	Archivists	120	130	10	4.9	20	\$40,230	Master's degree	None	None
25-4012	Curators	140	170	30	20.3	20	\$49,890	Master's degree	None	None
25-4013	Museum Technicians and Conservators	200	230	30	17.1	30	\$32,850	Bachelor's degree	None	None
25-4022	Librarians and Media Collections Specialists	1,960	2,090	130	6.8	200	\$47,720	Master's degree	None	None
25-4031	Library Technicians	920	890	-30	-3.2	130	\$27,430	Postsecondary non-degree award	None	None
25-9000	Other Education, Training, and Library Occupations	16,420	17,440	1,020	6.2	1,660	30330			
25-9031	Instructional Coordinators	2,250	2,370	120	5.2	230	\$51,900	Master's degree	5 years or more	None
25-9045	Teaching Assistants, Except Postsecondary	12,830	13,690	860	6.7	1300	\$19,910	Some college, no degree	None	None
25-9099	Education, Training, and Library Workers, All Other	930	930	0	-0.1	90	\$43,260	Bachelor's degree	None	None
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	22,400	24,820	2,420	10.8	2,640	38810			
27-1000	Art and Design Workers	6,900	7,100	200	3	670	N/A			
27-1011	Art Directors	410	460	40	10.4	50	\$74,280	Bachelor's degree	5 years or more	None
27-1012	Craft Artists	330	360	30	9.9	40	\$39,570	No formal educational credential	None	Long-term on-the-job training
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	100	110	10	14.7	10	N/A	Bachelor's degree	None	Long-term on-the-job training
27-1014	Multimedia Artists and Animators	310	350	40	12.9	40	\$47,870	Bachelor's degree	None	None

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change		Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
27-1021	Commercial and Industrial Designers	130	140	10	7.6	10	\$57,050	Bachelor's degree	None	None
27-1023	Floral Designers	520	350	-180	-33.8	20	\$25,080	High school diploma or equivalent	None	Moderate- term on- the-job training
27-1024	Graphic Designers	2,090	2,200	120	5.7	210	\$40,930	Bachelor's degree	None	None
27-1025	Interior Designers	730	740	10	1.8	70	\$47,000	Bachelor's degree	None	None
27-1026	Merchandise Displayers and Window Trimmers	1,990	2,070	80	4.1	190	\$29,890	High school diploma or equivalent	None	Short-term on-the-job training
27-2000	Entertainers and Performers, Sports and Related Workers	5,320	6,480	1,160	21.8	860	N/A			
27-2011	Actors	60	70	10	25.5	10	N/A	Some college, no degree	None	Long-term on-the-job training
27-2012	Producers and Directors	710	790	90	12.2	70	\$51,240	Bachelor's degree	Less than 5 years	None
27-2021	Athletes and Sports Competitors	310	400	100	31.4	60	\$35,390	No formal educational credential	None	Long-term on-the-job training
27-2022	Coaches and Scouts	2,810	3,550	740	26.3	510	\$28,590	Bachelor's degree	None	None
27-2032	Choreographers	160	200	40	26.9	30	N/A	High school diploma or equivalent	5 years or more	Long-term on-the-job training
27-2041	Music Directors and Composers	280	310	20	8.5	40	\$43,920	Bachelor's degree	Less than 5 years	None
27-2042	Musicians and Singers	690	750	60	8.9	90	N/A	No formal educational credential	None	Long-term on-the-job training
27-2090	Miscellaneous Entertainers and Performers, Sports and Related Workers	100	130	30	25.7	10	N/A	No formal educational credential	None	Short-term on-the-job training
27-3000	Media and Communication Workers	7,470	8,070	600	8.1	790	N/A			
27-3011	Radio and Television Announcers	370	400	30	8.2	40	\$19,810	Bachelor's degree	None	None
27-3023	News Analysts, Reporters, and Journalists	550	610	60	10.4	70	\$39,210	Bachelor's degree	None	None
27-3031	Public Relations Specialists	2,780	2,960	180	6.4	280	\$53,550	Bachelor's degree	None	None
27-3041	Editors	960	1,030	70	6.8	100	\$50,210	Bachelor's degree	Less than 5 years	None
27-3042	Technical Writers	790	880	90	11.6	80	\$60,490	Bachelor's degree	Less than 5 years	Short-term on-the-job training
27-3043	Writers and Authors	1,270	1,350	70	5.7	130	\$44,270	Bachelor's degree	None	Long-term on-the-job training
27-3091	Interpreters and Translators	660	770	110	16.2	80	\$33,420	Bachelor's degree	None	None
27-4000	Media and Communication Equipment Workers	2,710	3,170	450	16.7	320	N/A			
27-4011	Audio and Video Equipment Technicians	670	810	140	21.1	90	\$44,880	Postsecondary non-degree award	None	Short-term on-the-job training

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment		Percent Change	Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
27-4012	Broadcast Technicians	210	230	10	6.5	20	\$31,330	Associate's degree	None	Short-term on-the-job training
27-4014	Sound Engineering Technicians	100	110	10	8.9	10	\$42,820	Postsecondary non-degree award	None	Short-term on-the-job training
27-4021	Photographers	980	1,150	170	16.8	110	N/A	High school diploma or equivalent	None	Moderate- term on- the-job training
27-4031	Camera Operators, Television, Video, and Motion Picture	440	520	80	17.5	50	\$46,140	Bachelor's degree	None	None
27-4032	Film and Video Editors	230	270	40	19.1	30	\$40,200	Bachelor's degree	None	None
27-4098	Lighting Technicians and Media and Communication Equipment Workers, All Other	80	80	0	2.6	10	\$62,250	High school diploma or equivalent	None	Short-term on-the-job training
29-0000	Healthcare Practitioners and Technical Occupations	117,430	134,530	17,100	14.6	8,840	\$59,610			
29-1000	Health Diagnosing and Treating Practitioners	71,480	82,300	10,820	15.1	4,740	N/A			
29-1011	Chiropractors	650	770	120	19	30	\$77,480	Doctoral or professional degree	None	None
29-1021	Dentists, General	1,480	1,720	240	16.2	70	\$160,170	Doctoral or professional degree	None	None
29-1029	Dentists, All Other Specialists	70	60	-10	-8.7	0	\$179,330	Doctoral or professional degree	None	Internship /residency
29-1031	Dietitians and Nutritionists	880	990	110	12.6	70	\$61,280	Bachelor's degree	None	Internship /residency
29-1041	Optometrists	820	960	150	18	40	\$105,340	Doctoral or professional degree	None	None
29-1051	Pharmacists	4,030	4,270	240	5.9	180	\$122,770	Doctoral or professional degree	None	None
29-1071	Physician Assistants	1,650	2,230	590	35.6	160	\$118,370	Master's degree	None	None
29-1081	Podiatrists	60	60	10	10.5	10	\$173,860	Doctoral or professional degree	None	Internship /residency
29-1122	Occupational Therapists	930	1,130	200	21.8	80	\$91,370	Master's degree	None	None
29-1123	Physical Therapists	2,320	2,890	570	24.4	160	\$93,010	Doctoral or professional degree	None	None
29-1124	Radiation Therapists	340	390	60	16.6	30	N/A	Associate's degree	None	None
29-1125	Recreational Therapists	180	190	10	5.6	20	\$37,360	Bachelor's degree	None	None
29-1126	Respiratory Therapists	2,060	2,600	540	26.4	160	\$57,940	Associate's degree	None	None
29-1127	Speech-Language Pathologists	1,680	2,230	550	32.8	170	\$71,480	Master's degree	None	Internship /residency
29-1128	Exercise Physiologists	390	440	50	13.6	30	\$46,420	Bachelor's degree	None	None
29-1129	Therapists, All Other	70	70	10	12.3	10	N/A	Bachelor's degree	None	None

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change		Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
29-1131	Veterinarians	1,360	1,650	290	21.7	80	\$66,860	Doctoral or professional degree	None	None
29-1141	Registered Nurses	39,290	43,960	4,680	11.9	2,630	\$65,680	Bachelor's degree	None	None
29-1151	Nurse Anesthetists	370	460	90	23.7	30	\$179,360	Master's degree	None	None
29-1171	Nurse Practitioners	2,150	3,170	1,020	47.6	240	\$109,690	Master's degree	None	None
29-1181	Audiologists	80	100	20	24.7	10	\$88,930	Doctoral or professional degree	None	None
29-1211	Anesthesiologists	500	540	40	8.9	20	N/A	Doctoral or professional degree	None	Internship /residency
29-1215	Family Medicine Physicians	1,930	2,150	220	11.5	80	\$203,670	Doctoral or professional degree	None	Internship /residency
29-1216	General Internal Medicine Physicians	510	530	30	5.4	20	N/A	Doctoral or professional degree	None	Internship /residency
29-1218	Obstetricians and Gynecologists	130	140	10	5.4	10	N/A	Doctoral or professional degree	None	Internship /residency
29-1221	Pediatricians, General	120	120	0	2.5	0	\$187,780	Doctoral or professional degree	None	Internship /residency
29-1223	Psychiatrists	200	220	30	12.6	10	N/A	Doctoral or professional degree	None	Internship /residency
29-1228	Physicians, All Other; and Ophthalmologists, Except Pediatric	3,550	3,850	300	8.3	130	N/A	Doctoral or professional degree	None	Internship /residency
29-1248	Surgeons, Except Ophthalmologists	450	470	20	4	10	N/A	Doctoral or professional degree	None	Internship /residency
29-1292	Dental Hygienists	2,750	3,330	580	21.2	240	\$81,010	Associate's degree	None	None
29-1298	Acupuncturists and Healthcare Diagnosing or Treating Practitioners, All Other	390	440	50	12.5	30	\$62,260	Master's degree	None	None
29-2000	Health Technologists and Technicians	43,380	49,290	5,910	13.6	3,870	N/A			
29-2010	Clinical Laboratory Technologists and Technicians	4,890	5,670	780	15.9	410	\$46,410	Bachelor's degree	None	None
29-2031	Cardiovascular Technologists and Technicians	870	970	100	11	80	\$44,100	Associate's degree	None	None
29-2032	Diagnostic Medical Sonographers	1,110	1,360	240	22	110	\$71,810	Associate's degree	None	None
29-2033	Nuclear Medicine Technologists	240	260	30	10.5	20	\$71,690	Associate's degree	None	None
29-2034	Radiologic Technologists	3,320	3,700	380	11.5	290	\$56,700	Associate's degree	None	None
29-2035	Magnetic Resonance Imaging Technologists	630	680	60	9.1	50	\$69,130	Associate's degree	Less than 5 years	None
29-2040	Emergency Medical Technicians and Paramedics	3,420	3,940	520	15.2	290	\$35,380	Postsecondary non-degree award	None	None
29-2051	Dietetic Technicians	270	280	10	3.3	20	\$24,430	Associate's degree	None	None

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change		Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
29-2052	Pharmacy Technicians	5,100	5,860	760	15	460	\$31,230	High school diploma or equivalent	None	Moderate- term on- the-job training
29-2053	Psychiatric Technicians	1,260	1,450	190	15.2	110	\$28,020	Postsecondary non-degree award	Less than 5 years	Short-term on-the-job training
29-2055	Surgical Technologists	2,200	2,470	260	11.9	190	\$43,780	Postsecondary non-degree award	None	None
29-2056	Veterinary Technologists and Technicians	950	1,130	190	19.5	90	\$32,060	Associate's degree	None	None
29-2057	Ophthalmic Medical Technicians	340	420	90	25.4	30	\$34,310	Postsecondary non-degree award	None	None
29-2061	Licensed Practical and Licensed Vocational Nurses	13,700	15,370	1,670	12.2	1,260	\$43,170	Postsecondary non-degree award	None	None
29-2081	Opticians, Dispensing	780	930	160	20.5	80	\$29,040	High school diploma or equivalent	None	Long-term on-the-job training
29-2098	Medical Dosimetrists, Medical Records Specialists, and Health Technologists and Technicians, All Other	4,190	4,650	470	11.1	360	\$41,130	Postsecondary non-degree award	None	None
29-9000	Other Healthcare Practitioners and Technical Occupations	2,580	2,940	360	14.1	230	N/A			
29-9091	Athletic Trainers	250	340	90	36	30	\$49,510	Bachelor's degree	None	None
29-9098	Health Information Technologists, Medical Registrars, Surgical Assistants, & Healthcare Practitioners, AO	2,310	2,580	270	11.7	200	\$38,590	Postsecondary non-degree award	None	None
31-0000	Healthcare Support Occupations	66,880	79,960	13,080	19.6	10,170	\$26,690			
31-1100	Home Health and Personal Care Aides; and Nursing Assistants, Orderlies, and Psychiatric Aides	43,460	51,100	7,640	17.6	6470	N/A			
31-1120	Home Health and Personal Care Aides	20,740	26,510	5,770	27.8	3,430	\$20,390	High school diploma or equivalent	None	Short-term on-the-job training
31-1131	Nursing Assistants	21,660	23,400	1,740	8	2890	\$26,520	Postsecondary non-degree award	None	None
31-2000	Occupational Therapy and Physical Therapist Assistants and Aides	2,890	4,060	1,170	40.5	530	N/A			
31-2011	Occupational Therapy Assistants	650	930	270	42.1	120	\$63,580	Associate's degree	None	None
31-2012	Occupational Therapy Aides	70	80	10	14.3	10	\$30,990	High school diploma or equivalent	None	Short-term on-the-job training
31-2021	Physical Therapist Assistants	1,490	2,120	630	42.2	280	\$57,980	Associate's degree	None	None
31-2022	Physical Therapist Aides	680	930	260	37.8	120	\$20,940	High school diploma or equivalent	None	Short-term on-the-job training
31-9000	Other Healthcare Support Occupations	20,530	24,810	4,280	20.8	3170	N/A			
31-9091	Dental Assistants	4,070	4,860	790	19.3	600	\$37,880	Postsecondary non-degree award	None	None
31-9092	Medical Assistants	9,320	11,550	2,230	23.9	1430	\$30,750	Postsecondary non-degree award	None	None
31-9093	Medical Equipment Preparers	690	780	80	12.2	100	\$33,900	High school diploma or equivalent	None	Moderate- term on- the-job training

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change	Percent Change	Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
31-9094	Medical Transcriptionists	630	740	110	16.8	110	\$37,770	Postsecondary non-degree award	None	None
31-9095	Pharmacy Aides	880	820	-60	-6.5	100	\$23,990	High school diploma or equivalent	None	Short-term on-the-job training
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	1,680	2,040	370	22	330	\$27,520	High school diploma or equivalent	None	Short-term on-the-job training
31-9097	Phlebotomists	1,960	2,500	550	27.9	310	\$30,070	Postsecondary non-degree award	None	None
33-0000	Protective Service Occupations	38,160	41,750	3,590	9.4	4,560	\$38,320			
33-1000	Supervisors of Protective Service Workers	5,560	6,010	460	8.3	460	N/A			
33-1011	First-Line Supervisors of Correctional Officers	560	510	-60	-10	40	\$49,970	High school diploma or equivalent	Less than 5 years	None
33-1012	First-Line Supervisors of Police and Detectives	2,690	2,870	190	6.9	190	\$79,410	High school diploma or equivalent	Less than 5 years	Moderate- term on- the-job
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	1,210	1,310	90	7.8	90	\$81,420	Postsecondary non-degree award	Less than 5 years	Moderate- term on- the-job training
33-1090	Miscellaneous First-Line Supervisors, Protective Service Workers	1,100	1,330	240	21.6	140	\$48,040	High school diploma or equivalent	Less than 5 years	None
33-2000	Fire Fighting and Prevention Workers	4,250	4,610	370	8.7	370	N/A			
33-2011	Firefighters	3,990	4,350	350	8.9	340	\$42,830	Postsecondary non-degree award	None	Long-term on-the-job training
33-3000	Law Enforcement Workers	13,650	13,620	-30	-0.2	1,110	N/A			
33-3012	Correctional Officers and Jailers	4,760	4,480	-280	-6	400	\$35,480	High school diploma or equivalent	None	Moderate- term on- the-job training
33-3021	Detectives and Criminal Investigators	990	900	-90	-8.9	60	\$60,790	High school diploma or equivalent	Less than 5 years	Moderate- term on- the-job training
33-3031	Fish and Game Wardens	200	170	-30	-15.6	20	\$46,820	Bachelor's degree	None	Moderate- term on- the-job training
33-3051	Police and Sheriff's Patrol Officers	7,610	7,990	390	5.1	630	\$45,650	High school diploma or equivalent	None	Moderate- term on- the-job training
33-9000	Other Protective Service Workers	14,710	17,510	2,790	19	2,630	N/A			_
33-9011	Animal Control Workers	290	310	30	9.5	30	\$31,110	High school diploma or equivalent	None	Moderate- term on- the-job training
33-9031	Gaming Surveillance Officers and Gaming Investigators	1,430	1,850	420	29.4	260	\$29,630	High school diploma or equivalent	Less than 5 years	Moderate- term on- the-job training
33-9032	Security Guards	10,230	12,100	1,870	18.2	1,640	\$30,240	High school diploma or equivalent	None	Short-term on-the-job training
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	1,050	1,440	390	37.3	350	\$19,450	No formal educational credential	None	Short-term on-the-job training

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change		Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
33-9093	Transportation Security Screeners	280	250	-30	-9.6	20	\$40,120	High school diploma or equivalent	None	Short-term on-the-job training
33-9098	School Bus Monitors and Protective Service Workers, All Other	980	1,030	50	4.7	250	\$31,200	High school diploma or equivalent	None	Short-term on-the-job training
35-0000	Food Preparation and Serving Related Occupations	155,720	192,440	36,720	23.6	33,760	\$20,390			
35-1000	Supervisors of Food Preparation and Serving Workers	14,980	18,840	3,870	25.8	2,850	N/A			
35-1011	Chefs and Head Cooks	640	850	210	33	120	\$52,290	High school diploma or equivalent	5 years or more	None
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	14,330	17,990	3,650	25.5	2,730	\$29,830	High school diploma or equivalent	Less than 5 years	None
35-2000	Cooks and Food Preparation Workers	55,090	67,590	12,500	22.7	10,350	N/A			
35-2011	Cooks, Fast Food	13,590	13,780	190	1.4	2,000	\$19,420	No formal educational credential	None	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	10,900	11,600	690	6.4	1,690	\$21,890	No formal educational credential	None	Short-term on-the-job training
35-2014	Cooks, Restaurant	18,080	27,870	9,790	54.1	4,300	\$24,790	No formal educational credential	Less than 5 years	Moderate- term on- the-job training
35-2015	Cooks, Short Order	3,600	4,130	530	14.8	610	\$21,210	No formal educational credential	None	Short-term on-the-job training
35-2021	Food Preparation Workers	8,630	9,880	1,250	14.4	1,700	\$20,580	No formal educational credential	None	Short-term on-the-job training
35-3000	Food and Beverage Serving Workers	73,900	90,740	16,850	22.8	17,680	N/A			
35-3011	Bartenders	8,030	10,710	2,680	33.3	1,830	\$18,960	No formal educational credential	None	Short-term on-the-job training
35-3023	Fast Food and Counter Workers	38,720	46,290	7,570	19.6	9,370	\$19,640	No formal educational credential	None	Short-term on-the-job training
35-3031	Waiters and Waitresses	25,780	32,140	6,360	24.7	6,220	\$18,870	No formal educational credential	None	Short-term on-the-job training
35-3041	Food Servers, Nonrestaurant	1,370	1,600	240	17.3	260	\$20,130	No formal educational credential	None	Short-term on-the-job training
35-9000	Other Food Preparation and Serving Related Workers	11,750	15,270	3,520	29.9	2,890	N/A			
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	3,780	5,060	1,280	33.9	890	\$19,410	No formal educational credential	None	Short-term on-the-job training
35-9021	Dishwashers	3,990	4,980	990	24.8	810	\$22,070	No formal educational credential	None	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	3,870	5,090	1,220	31.5	1,160	\$19,520	No formal educational credential	None	Short-term on-the-job training
35-9099	Food Preparation and Serving Related Workers, All Other	120	150	30	20.7	30	\$20,120	No formal educational credential	None	Short-term on-the-job training
37-0000	Building and Grounds Cleaning and Maintenance Occupations	51,230	57,800	6,570	12.8	7,710	\$25,020			
37-1000	Supervisors of Building and Grounds Cleaning and Maintenance Workers	4,750	5,170	420	8.9	580	N/A			

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change		Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	2,770	3,050	280	10.2	350	\$35,040	High school diploma or equivalent	Less than 5 years	None
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	1,980	2,120	140	7.1	230	\$48,370	High school diploma or equivalent	Less than 5 years	None
37-2000	Building Cleaning and Pest Control Workers	34,110	38,800	4,690	13.8	5,300	N/A			
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	19,050	21,130	2,080	10.9	2,870	\$23,770	No formal educational credential	None	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	13,720	16,120	2,400	17.5	2,210	\$22,090	No formal educational credential	None	Short-term on-the-job training
37-2019	Building Cleaning Workers, All Other	210	230	20	11.4	30	\$30,080	No formal educational credential	None	Short-term on-the-job training
37-2021	Pest Control Workers	1,140	1,320	190	16.3	180	\$31,620	High school diploma or equivalent	None	Moderate- term on- the-job training
37-3000	Grounds Maintenance Workers	12,370	13,830	1,460	11.8	1,830	N/A			
37-3011	Landscaping and Groundskeeping Workers	10,950	12,250	1,300	11.8	1,620	\$29,000	No formal educational credential	None	Short-term on-the-job training
37-3013	Tree Trimmers and Pruners	1,010	1,130	120	11.8	150	\$38,900	High school diploma or equivalent	None	Short-term on-the-job training
39-0000	Personal Care and Service Occupations	39,170	47,020	7,850	20	6,820	\$23,390			
39-1000	Supervisors of Personal Care and Service Workers	2,820	3,580	770	27.2	420	N/A			
39-1013	First-Line Supervisors of Gambling Services Workers	970	1,300	330	34.2	150	\$38,690	High school diploma or equivalent	Less than 5 years	None
39-1098	First-Line Supervisors of Personal Service & Entertainment and Recreation Workers, Exc Gambling Services	1,850	2,280	430	23.5	260	\$33,360	High school diploma or equivalent	Less than 5 years	None
39-2000	Animal Care and Service Workers	4,090	5,020	920	22.5	740	N/A			
39-2011	Animal Trainers	620	720	100	16.9	90	\$28,210	High school diploma or equivalent	None	Moderate- term on- the-job training
39-2021	Nonfarm Animal Caretakers	3,480	4,300	820	23.5	660	\$23,740	High school diploma or equivalent	None	Short-term on-the-job training
39-3000	Entertainment Attendants and Related Workers	5,220	7,070	1,850	35.4	1,330	N/A			
39-3011	Gaming Dealers	1,930	2,640	710	36.6	400	\$19,340	High school diploma or equivalent	None	Short-term on-the-job training
39-3012	Gaming and Sports Book Writers and Runners	210	290	80	36.5	40	\$19,780	High school diploma or equivalent	None	Short-term on-the-job training
39-3019	Gaming Service Workers, All Other	50	70	20	31.4	10	\$23,390	High school diploma or equivalent	None	Short-term on-the-job training
39-3031	Ushers, Lobby Attendants, and Ticket Takers	990	1,320	330	33.6	300	\$18,380	No formal educational credential	None	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	1,810	2,430	620	34.4	510	\$19,520	No formal educational credential	None	Short-term on-the-job training
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	150	200	50	35.2	40	\$22,220	High school diploma or equivalent	None	Short-term on-the-job training

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change		Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
39-4000	Funeral Service Workers	980	920	-60	-6	110	N/A			
39-4011	Embalmers	110	100	-10	-8.9	10	\$45,690	Associate's degree	None	Long-term on-the-job training
39-4021	Funeral Attendants	580	550	-30	-5.5	70	\$25,010	High school diploma or equivalent	None	Short-term on-the-job training
39-4031	Morticians, Undertakers, and Funeral Directors	290	270	-20	-5.9	30	\$43,140	Associate's degree	None	Long-term on-the-job training
39-5000	Personal Appearance Workers	6,810	7,910	1,100	16.2	900	N/A			
39-5012	Hairdressers, Hairstylists, and Cosmetologists	5,810	6,690	880	15.2	770	\$25,120	Postsecondary non-degree award	None	None
39-5094	Skincare Specialists	380	480	100	26.1	60	\$56,600	Postsecondary non-degree award	None	None
39-6000	Baggage Porters, Bellhops, and Concierges	1,150	1,480	320	27.9	200	N/A			
39-6011	Baggage Porters and Bellhops	470	630	170	36.3	90	\$21,790	High school diploma or equivalent	None	Short-term on-the-job training
39-6012	Concierges	690	840	150	22.2	110	\$24,280	High school diploma or equivalent	None	Moderate- term on- the-job training
39-7000	Tour and Travel Guides	310	400	100	31.2	70	N/A			
39-7010	Tour and Travel Guides	310	400	100	31.2	70	\$24,370	High school diploma or equivalent	None	Moderate- term on- the-job training
39-9000	Other Personal Care and Service Workers	17,790	20,640	2,850	16	3,050	N/A			
39-9011	Childcare Workers	9,350	9,910	560	6	1,380	\$20,130	High school diploma or equivalent	None	Short-term on-the-job training
39-9031	Fitness Trainers and Aerobics Instructors	4,170	5,890	1,730	41.4	940	\$39,480	High school diploma or equivalent	None	Short-term on-the-job training
39-9032	Recreation Workers	2,800	3,210	410	14.4	500	\$26,320	High school diploma or equivalent	None	Short-term on-the-job training
39-9041	Residential Advisors	1,010	1,090	80	7.9	160	\$24,350	High school diploma or equivalent	None	Short-term on-the-job training
39-9098	Crematory Operators and Personal Care and Service Workers, All Other	460	540	80	17.4	70	\$22,670	High school diploma or equivalent	None	Short-term on-the-job training
41-0000	Sales and Related Occupations	167,820	174,650	6,830	4.1	23,240	\$26,870			
41-1000	Supervisors of Sales Workers	25,550	25,690	150	0.6	2,610	N/A			
41-1011	First-Line Supervisors of Retail Sales Workers	20,300	20,430	130	0.6	2,140	\$36,600	High school diploma or equivalent	Less than 5 years	None
41-1012	First-Line Supervisors of Non-Retail Sales Workers	5,240	5,260	20	0.4	470	\$65,360	High school diploma or equivalent	Less than 5 years	None
41-2000	Retail Sales Workers	94,990	99,010	4,020	4.2	15,450	N/A			
41-2011	Cashiers	40,680	39,050	-1,630	-4	7,050	\$21,250	No formal educational credential	None	Short-term on-the-job training

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change		Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
41-2012	Gaming Change Persons and Booth Cashiers	1,620	2,110	480	29.8	390	\$22,680	No formal educational credential	None	Short-term on-the-job training
41-2021	Counter and Rental Clerks	2,680	3,100	420	15.5	370	\$25,840	No formal educational credential	None	Short-term on-the-job training
41-2022	Parts Salespersons	3,670	4,080	410	11.1	500	\$30,850	No formal educational credential	None	Moderate- term on- the-job training
41-2031	Retail Salespersons	46,340	50,670	4,340	9.4	7,150	\$24,330	No formal educational credential	None	Short-term on-the-job training
41-3000	Sales Representatives, Services	18,190	18,830	640	3.5	1,970	N/A			
41-3011	Advertising Sales Agents	800	830	30	3.5	100	\$43,170	High school diploma or equivalent	None	Moderate- term on- the-job training
41-3021	Insurance Sales Agents	6,040	4,820	-1,210	-20.1	360	\$41,830	High school diploma or equivalent	None	Moderate- term on- the-job training
41-3031	Securities, Commodities, and Financial Services Sales Agents	2,290	2,510	220	9.6	230	\$53,980	Bachelor's degree	None	Moderate- term on- the-job training
41-3041	Travel Agents	250	270	20	7.2	30	\$38,390	High school diploma or equivalent	None	Moderate- term on- the-job training
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	8,820	10,410	1,580	17.9	1,240	\$45,930	High school diploma or equivalent	None	Moderate- term on- the-job training
41-4000	Sales Representatives, Wholesale and Manufacturing	15,140	16,350	1,210	8	1,650	N/A			
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	5,770	6,350	570	10	650	\$72,830	Bachelor's degree	None	Moderate- term on- the-job training
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	9,370	10,010	640	6.8	1010	\$50,190	High school diploma or equivalent	None	Moderate- term on- the-job training
41-9000	Other Sales and Related Workers	13,950	14,770	820	5.9	1,560	N/A			
41-9011	Demonstrators and Product Promoters	330	350	20	6.8	60	\$31,250	No formal educational credential	None	Short-term on-the-job training
41-9021	Real Estate Brokers	1,550	1,610	60	3.7	140	\$31,870	High school diploma or equivalent	Less than 5 years	None
41-9022	Real Estate Sales Agents	7,520	7,850	330	4.4	690	\$43,710	High school diploma or equivalent	None	Moderate- term on- the-job training
41-9031	Sales Engineers	380	440	70	17.6	50	\$86,720	Bachelor's degree	None	Moderate- term on- the-job training
41-9041	Telemarketers	1,220	1,350	130	10.5	200	\$27,410	No formal educational credential	None	Short-term on-the-job training
43-0000	Office and Administrative Support Occupations	229,790	234,370	4,580	2	25,730	\$34,450			
43-1000	Supervisors of Office and Administrative Support Workers	20,290	20,950	660	3.2	2,090	N/A			

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change	Percent Change	Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
43-1011	First-Line Supervisors of Office and Administrative Support Workers	20,290	20,950	660	3.2	2,090	\$50,850	High school diploma or equivalent	Less than 5 years	None
43-2000	Communications Equipment Operators	770	660	-110	-14.3	70	N/A			
43-2011	Switchboard Operators, Including Answering Service	720	620	-100	-14.1	60	\$25,850	High school diploma or equivalent	None	Short-term on-the-job training
43-3000	Financial Clerks	44,610	45,230	620	1.4	4,840	N/A			
43-3011	Bill and Account Collectors	2,940	3,150	200	6.9	350	\$33,270	High school diploma or equivalent	None	Moderate- term on- the-job training
43-3021	Billing and Posting Clerks	6,700	6,910	210	3.2	720	\$35,390	High school diploma or equivalent	None	Moderate- term on- the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	23,140	23,240	100	0.4	2,550	\$38,460	Some college, no degree	None	Moderate- term on- the-job training
43-3041	Gaming Cage Workers	1,140	1,550	410	35.7	180	\$23,500	High school diploma or equivalent	None	Short-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	2,370	2,130	-230	-9.8	210	\$46,630	High school diploma or equivalent	None	Moderate- term on- the-job training
43-3061	Procurement Clerks	1,010	940	-70	-6.7	80	\$45,110	High school diploma or equivalent	None	Moderate- term on- the-job training
43-3071	Tellers	7,200	7,180	-20	-0.3	740	\$26,510	High school diploma or equivalent	None	Short-term on-the-job training
43-3099	Financial Clerks, All Other	110	130	20	16.1	10	\$32,490	High school diploma or equivalent	None	Short-term on-the-job training
43-4000	Information and Record Clerks	64,350	70,250	5,910	9.2	8,740	N/A			
43-4011	Brokerage Clerks	260	240	-20	-9.1	30	\$56,870	High school diploma or equivalent	None	Moderate- term on- the-job training
43-4031	Court, Municipal, and License Clerks	3,250	3,640	390	12.1	380	\$32,210	High school diploma or equivalent	None	Long-term on-the-job training
43-4041	Credit Authorizers, Checkers, and Clerks	380	410	30	6.5	40	\$35,610	High school diploma or equivalent	None	Moderate- term on- the-job training
43-4051	Customer Service Representatives	31,980	36,340	4,360	13.6	4,730	\$31,490	High school diploma or equivalent	None	Short-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	440	450	10	3	40	\$43,640	High school diploma or equivalent	None	Moderate- term on- the-job training
43-4071	File Clerks	1,650	1,490	-160	-9.8	170	\$30,650	High school diploma or equivalent	None	Short-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	2,490	3,200	710	28.5	540	\$20,810	High school diploma or equivalent	None	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	2,650	2,550	-100	-3.8	310	\$31,310	High school diploma or equivalent	None	Short-term on-the-job training
43-4121	Library Assistants, Clerical	1,530	1,490	-40	-2.6	230	\$23,150	High school diploma or equivalent	None	Short-term on-the-job training

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change	Percent Change	Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
43-4131	Loan Interviewers and Clerks	3,820	4,380	550	14.5	410	\$34,810	High school diploma or equivalent	None	Short-term on-the-job training
43-4141	New Accounts Clerks	1,580	1,570	-10	-0.9	150	\$30,670	High school diploma or equivalent	None	Moderate- term on- the-job training
43-4151	Order Clerks	1,420	1,220	-210	-14.6	120	\$30,020	Some college, no degree	None	Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	850	820	-20	-2.6	80	\$40,850	Associate's degree	None	None
43-4171	Receptionists and Information Clerks	9,430	9,790	360	3.8	1,240	\$29,190	High school diploma or equivalent	None	Short-term on-the-job training
43-4199	Information and Record Clerks, All Other	1,920	1,940	20	1.1	210	\$40,570	High school diploma or equivalent	None	Short-term on-the-job training
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	27,880	28,660	780	2.8	2,660	N/A			
43-5011	Cargo and Freight Agents	570	600	30	6	60	\$41,240	High school diploma or equivalent	None	Short-term on-the-job training
43-5021	Couriers and Messengers	1,970	1,810	-160	-8.1	170	\$30,420	High school diploma or equivalent	None	Short-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	1,790	1,930	140	7.9	180	\$31,820	High school diploma or equivalent	None	Moderate- term on- the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	2,190	2,310	120	5.5	220	\$39,940	High school diploma or equivalent	None	Moderate- term on- the-job training
43-5041	Meter Readers, Utilities	390	370	-20	-5.8	30	\$35,700	High school diploma or equivalent	None	Short-term on-the-job training
43-5051	Postal Service Clerks	1,030	1,070	50	4.7	90	\$49,190	High school diploma or equivalent	None	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	3,940	4,130	190	4.8	300	\$50,140	High school diploma or equivalent	None	Short-term on-the-job training
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	730	730	-10	-0.7	60	\$52,130	High school diploma or equivalent	None	Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	6,420	7,100	670	10.5	750	\$48,360	High school diploma or equivalent	None	Moderate- term on- the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	8,280	7,980	-300	-3.6	750	\$32,560	High school diploma or equivalent	None	Short-term on-the-job training
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	570	620	50	9.1	60	\$40,330	High school diploma or equivalent	None	Short-term on-the-job training
43-6000	Secretaries and Administrative Assistants	42,460	40,690	-1,780	-4.2	4,260	N/A	Squara		
43-6011	Executive Secretaries and Executive Administrative Assistants	7,980	6,440	-1,540	-19.3	620	\$41,610	High school diploma or equivalent	Less than 5 years	None
43-6012	Legal Secretaries	1,280	1,110	-170	-13.3	110	\$35,830	High school diploma or equivalent	None	Moderate- term on- the-job training
43-6013	Medical Secretaries	9,620	11,420	1,800	18.7	1,300	\$33,570	High school diploma or equivalent	None	Moderate- term on- the-job training
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	23,580	21,720	-1,860	-7.9	2,230	\$32,020	High school diploma or equivalent	None	Short-term on-the-job training

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change	Percent Change	Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
43-9000	Other Office and Administrative Support Workers	29,440	27,940	-1,500	-5.1	3,070	N/A			
43-9021	Data Entry Keyers	1,870	1,490	-380	-20.4	140	\$31,340	High school diploma or equivalent	None	Short-term on-the-job training
43-9031	Desktop Publishers	140	140	0	-2.8	20	\$36,630	Associate's degree	None	Short-term on-the-job training
43-9041	Insurance Claims and Policy Processing Clerks	1,850	1,400	-450	-24.5	110	\$38,870	High school diploma or equivalent	None	Moderate- term on- the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	1,140	1,100	-40	-3.3	120	\$30,960	High school diploma or equivalent	None	Short-term on-the-job training
43-9061	Office Clerks, General	22,620	22,030	-590	-2.6	2,480	\$29,660	High school diploma or equivalent	None	Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	470	400	-70	-15	40	\$28,570	High school diploma or equivalent	None	Short-term on-the-job training
43-9081	Proofreaders and Copy Markers	80	90	10	9.9	10	\$44,640	Bachelor's degree	None	None
43-9111	Statistical Assistants	160	170	10	7	20	\$39,540	Bachelor's degree	None	None
43-9199	Office and Administrative Support Workers, All Other	1,040	1,090	50	4.6	120	\$38,370	High school diploma or equivalent	None	Short-term on-the-job training
45-0000	Farming, Fishing, and Forestry Occupations	8,060	8,670	610	7.5	1,360	\$30,010			
45-1000	Supervisors of Farming, Fishing, and Forestry Workers	450	460	10	2.2	70	N/A			
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	450	460	10	2.2	70	\$60,830	High school diploma or equivalent	Less than 5 years	None
45-2000	Agricultural Workers	7,280	7,850	570	7.8	1,240	N/A			
45-2011	Agricultural Inspectors	380	370	-10	-2.6	60	\$38,460	Bachelor's degree	None	Moderate- term on- the-job training
45-2021	Animal Breeders	80	110	30	36.7	20	N/A	High school diploma or equivalent	None	Short-term on-the-job training
45-2041	Graders and Sorters, Agricultural Products	350	320	-40	-10.2	50	\$26,520	No formal educational credential	None	Short-term on-the-job training
45-2091	Agricultural Equipment Operators	580	620	40	7.6	100	\$29,900	No formal educational credential	None	Moderate- term on- the-job training
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	2,610	2,420	-190	-7.3	370	\$27,360	No formal educational credential	None	Short-term on-the-job training
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	3,210	3,930	720	22.3	630	\$24,170	No formal educational credential	None	Short-term on-the-job training
45-2099	Agricultural Workers, All Other	70	80	10	20.6	10	N/A	No formal educational credential	None	Short-term on-the-job training
45-4000	Forest, Conservation, and Logging Workers	300	330	30	8.6	50	N/A			
45-4022	Logging Equipment Operators	190	220	30	14.2	30	\$54,910	High school diploma or equivalent	None	Moderate- term on- the-job training

Table 15: 2020-2030 Occupational Employment Projections (continued)

										Typical
SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change	Percent Change	Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	On-The- Job Training
47-0000	Construction and Extraction Occupations	91,370	101,900	10,530	11.5	10,770	\$42,280			
47-1000	Supervisors of Construction and Extraction Workers	11,710	13,290	1,570	13.4	1,320	N/A			
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	11,710	13,290	1,570	13.4	1,320	\$63,660	High school diploma or equivalent	5 years or more	None
47-2000	Construction Trades Workers	58,060	63,320	5,260	9.1	6,420	N/A			
47-2011	Boilermakers	90	100	10	10.5	10	\$60,460	High school diploma or equivalent	None	Apprentice- ship
47-2021	Brickmasons and Blockmasons	490	460	-30	-5.1	40	\$46,570	High school diploma or equivalent	None	Apprentice- ship
47-2022	Stonemasons	250	250	0	-0.4	20	\$36,410	High school diploma or equivalent	None	Apprentice- ship
47-2031	Carpenters	7,230	7,660	440	6	730	\$43,450	High school diploma or equivalent	None	Apprentice- ship
47-2041	Carpet Installers	340	340	-10	-2.3	30	\$44,490	No formal educational credential	None	Short-term on-the-job training
47-2044	Tile and Marble Setters	310	350	40	12.9	30	\$36,200	No formal educational credential	None	Long-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	2,790	2,890	100	3.5	270	\$38,500	No formal educational credential	None	Moderate- term on- the-job training
47-2061	Construction Laborers	11,480	13,200	1,720	15	1,370	\$32,890	No formal educational credential	None	Short-term on-the-job training
47-2071	Paving, Surfacing, and Tamping Equipment Operators	1,240	1,420	180	14.2	160	\$37,290	High school diploma or equivalent	None	Moderate- term on- the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	6,820	7,560	740	10.8	830	\$40,770	High school diploma or equivalent	None	Moderate- term on- the-job training
47-2081	Drywall and Ceiling Tile Installers	430	450	20	5.6	40	\$40,960	No formal educational credential	None	Moderate- term on- the-job training
47-2111	Electricians	8,010	8,830	820	10.3	940	\$48,580	High school diploma or equivalent	None	Apprentice ship
47-2121	Glaziers	240	250	10	5.8	30	\$40,080	High school diploma or equivalent	None	Apprentice- ship
47-2131	Insulation Workers, Floor, Ceiling, and Wall	410	430	20	5.4	40	\$34,860	No formal educational credential	None	Short-term on-the-job training
47-2132	Insulation Workers, Mechanical	440	460	20	5.5	40	\$38,580	High school diploma or equivalent	None	Apprentice- ship
47-2141	Painters, Construction and Maintenance	2,980	3,110	130	4.5	270	\$38,430	No formal educational credential	None	Moderate- term on- the-job training
47-2142	Paperhangers	120	120	0	1.7	10	\$33,450	No formal educational credential	None	Long-term on-the-job training
47-2151	Pipelayers	860	940	80	9.7	100	\$36,780	No formal educational credential	None	Short-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	6,420	7,100	680	10.7	750	\$52,070	High school diploma or equivalent	None	Apprentice- ship

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change		Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
47-2181	Roofers	1,100	1,150	50	4.6	110	\$39,060	No formal educational credential	None	Moderate- term on- the-job training
47-2211	Sheet Metal Workers	3,760	3,750	-10	-0.3	340	\$54,600	High school diploma or equivalent	None	Apprentice- ship
47-2221	Structural Iron and Steel Workers	1,450	1,600	150	10.3	170	\$39,420	High school diploma or equivalent	None	Apprentice- ship
47-3000	Helpers, Construction Trades	3,430	3,600	170	4.9	430	N/A			
47-3011	HelpersBrickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	250	240	-10	-3.6	30	\$31,180	No formal educational credential	None	Short-term on-the-job training
47-3013	Helpers–Electricians	1,140	1,180	30	2.8	140	\$36,160	High school diploma or equivalent	None	Short-term on-the-job training
47-3015	HelpersPipelayers, Plumbers, Pipefitters, and Steamfitters	1,130	1,220	90	7.7	150	\$36,530	High school diploma or equivalent	None	Short-term on-the-job training
47-4000	Other Construction and Related Workers	8,600	9,300	700	8.1	1,040	N/A			
47-4011	Construction and Building Inspectors	2,340	2,510	170	7.2	300	\$55,240	High school diploma or equivalent	5 years or more	Moderate- term on- the-job training
47-4021	Elevator Installers and Repairers	250	270	10	5.5	30	\$84,710	High school diploma or equivalent	None	Apprentice- ship
47-4031	Fence Erectors	330	350	20	5.2	40	\$29,130	No formal educational credential	None	Moderate- term on- the-job training
47-4041	Hazardous Materials Removal Workers	510	520	10	2	60	\$54,790	High school diploma or equivalent	None	Moderate- term on- the-job training
47-4051	Highway Maintenance Workers	3,260	3,530	270	8.4	370	\$34,850	High school diploma or equivalent	None	Moderate- term on- the-job training
47-4061	Rail-Track Laying and Maintenance Equipment Operators	260	280	20	9	30	\$37,800	High school diploma or equivalent	None	Moderate- term on- the-job training
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	980	1,080	100	9.9	130	\$33,720	High school diploma or equivalent	None	Moderate- term on- the-job training
47-4090	Miscellaneous Construction and Related Workers	680	770	90	13.5	90	\$34,140	High school diploma or equivalent	None	Moderate- term on- the-job training
47-5000	Extraction Workers	9,560	12,400	2,840	29.7	1,570	N/A			
47-5011	Derrick Operators, Oil and Gas	480	640	160	32.5	80	\$55,680	No formal educational credential	None	Short-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	1,890	2,540	650	34.2	330	\$51,370	No formal educational credential	None	Moderate- term on- the-job training
47-5013	Service Unit Operators, Oil, Gas, and Mining	2,120	2,750	630	29.5	350	\$39,550	No formal educational credential	None	Moderate- term on- the-job training
47-5022	Excavating and Loading Machine and Dragline Operators, Surface Mining	500	540	40	8.7	60	\$42,940	High school diploma or equivalent	Less than 5 years	Moderate- term on- the-job training

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change	Percent Change	Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
47-5051	Rock Splitters, Quarry	70	70	10	12.3	10	\$30,900	No formal educational credential	None	Short-term on-the-job training
47-5071	Roustabouts, Oil and Gas	3,170	4,360	1,190	37.7	560	\$40,140	No formal educational credential	None	Moderate- term on- the-job training
47-5081	HelpersExtraction Workers	270	380	100	37.6	50	\$46,170	High school diploma or equivalent	None	Moderate- term on- the-job training
47-5097	Earth Drillers, Except Oil and Gas; and Explosives Workers, Ordnance Handling Experts, and Blasters	740	740	0	0.4	90	\$45,650	High school diploma or equivalent	Less than 5 years	Long-term on-the-job training
47-5098	Underground Mining Machine Operators and Extraction Workers, All Other	190	230	40	21.7	30	\$38,290	High school diploma or equivalent	None	Moderate- term on- the-job training
49-0000	Installation, Maintenance, and Repair Occupations	81,090	90,360	9,270	11.4	8,980	\$45,850			
49-1000	Supervisors of Installation, Maintenance, and Repair Workers	7,350	8,230	880	12	780	N/A			
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	7,350	8,230	880	12	780	\$69,230	High school diploma or equivalent	Less than 5 years	None
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers	7,960	9,000	1,050	13.2	930	N/A			
49-2011	Computer, Automated Teller, and Office Machine Repairers	1,270	1,410	140	11.1	160	\$38,360	Some college, no degree	None	Short-term on-the-job training
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers	250	310	60	23	40	\$49,540	Associate's degree	None	Moderate- term on- the-job training
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	1,950	2,340	390	19.8	280	\$57,420	Postsecondary non-degree award	None	Moderate- term on- the-job training
49-2091	Avionics Technicians	660	690	30	5	50	\$56,800	Associate's degree	None	None
49-2092	Electric Motor, Power Tool, and Related Repairers	390	450	60	16.3	50	\$35,210	High school diploma or equivalent	Less than 5 years	Moderate- term on- the-job training
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	1,160	1,220	60	5.1	100	\$62,050	Postsecondary non-degree award	None	Long-term on-the-job training
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	560	640	80	14.2	50	\$60,130	Postsecondary non-degree award	Less than 5 years	Moderate- term on- the-job training
49-2098	Security and Fire Alarm Systems Installers	1,400	1,620	220	15.8	170	\$48,950	High school diploma or equivalent	None	Moderate- term on- the-job training
49-3000	Vehicle and Mobile Equipment Mechanics, Installers, and Repairers	24,870	26,730	1,860	7.5	2,640	N/A			
49-3011	Aircraft Mechanics and Service Technicians	4,440	4,580	140	3.2	380	\$58,950	Postsecondary non-degree award	None	None
49-3021	Automotive Body and Related Repairers	2,050	2,180	130	6.3	210	\$40,990	High school diploma or equivalent	None	Long-term on-the-job training
49-3022	Automotive Glass Installers and Repairers	110	120	10	8.4	10	\$25,110	High school diploma or equivalent	None	Moderate- term on- the-job training
49-3023	Automotive Service Technicians and Mechanics	8,430	8,750	310	3.7	870	\$42,810	Postsecondary non-degree award	None	Short-term on-the-job training

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change		Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	3,710	4,080	370	10	390	\$44,780	High school diploma or equivalent	None	Long-term on-the-job training
49-3041	Farm Equipment Mechanics and Service Technicians	540	620	80	14.7	60	\$43,730	High school diploma or equivalent	None	Long-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	2,150	2,560	400	18.7	270	\$51,320	High school diploma or equivalent	None	Long-term on-the-job training
49-3043	Rail Car Repairers	210	210	0	1.4	20	\$52,340	High school diploma or equivalent	None	Long-term on-the-job training
49-3051	Motorboat Mechanics and Service Technicians	210	250	40	19.2	30	\$36,110	High school diploma or equivalent	None	Long-term on-the-job training
49-3052	Motorcycle Mechanics	190	210	30	14.4	30	\$32,790	Postsecondary non-degree award	None	Short-term on-the-job training
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	620	700	80	13.6	80	\$33,870	High school diploma or equivalent	None	Moderate- term on- the-job training
49-3092	Recreational Vehicle Service Technicians	310	390	80	26.1	50	\$44,420	High school diploma or equivalent	None	Long-term on-the-job training
49-3093	Tire Repairers and Changers	1,920	2,090	180	9.2	250	\$31,430	High school diploma or equivalent	None	Short-term on-the-job training
49-9000	Other Installation, Maintenance, and Repair Occupations	40,910	46,400	5,490	13.4	4,640	N/A			
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	1,390	1,650	260	18.7	150	\$58,940	High school diploma or equivalent	None	Moderate- term on- the-job training
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	4,620	4,910	300	6.5	480	\$44,470	Postsecondary non-degree award	None	Long-term on-the-job training
49-9031	Home Appliance Repairers	460	490	40	7.6	50	\$38,070	High school diploma or equivalent	None	Moderate- term on- the-job training
49-9041	Industrial Machinery Mechanics	4,270	5,400	1,130	26.5	520	\$54,530	High school diploma or equivalent	None	Long-term on-the-job training
49-9043	Maintenance Workers, Machinery	4,260	5,050	790	18.5	490	\$50,170	High school diploma or equivalent	None	Long-term on-the-job training
49-9044	Millwrights	210	250	50	21.6	20	\$53,240	High school diploma or equivalent	None	Apprentice- ship
49-9051	Electrical Power-Line Installers and Repairers	1,890	2,200	310	16.3	210	\$68,300	High school diploma or equivalent	None	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	1,370	1,620	250	18.6	180	\$56,930	High school diploma or equivalent	None	Long-term on-the-job training
49-9062	Medical Equipment Repairers	500	570	70	14.3	60	\$44,320	Associate's degree	None	Moderate- term on- the-job training
49-9063	Musical Instrument Repairers and Tuners	170	170	0	-1.2	20	\$37,050	High school diploma or equivalent	None	Apprentice- ship
49-9069	Precision Instrument and Equipment Repairers, All Other	150	140	-10	-9.3	10	\$61,100	High school diploma or equivalent	None	Long-term on-the-job training
49-9071	Maintenance and Repair Workers, General	16,340	17,850	1,520	9.3	1,750	\$35,020	High school diploma or equivalent	None	Moderate- term on- the-job training
49-9081	Wind Turbine Service Technicians	230	470	240	106.2	60	\$50,720	Postsecondary non-degree award	None	Long-term on-the-job training

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change	Percent Change	Total Annual	Annual	Typical Entry Level	Work Experience	Typical On-The- Job
						Openings	Wage	Education	Required	Training
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	930	1,100	180	18.8	140	\$33,100	High school diploma or equivalent	None	Short-term on-the-job training
49-9094	Locksmiths and Safe Repairers	110	110	0	-3.5	10	\$45,390	High school diploma or equivalent	None	Long-term on-the-job training
49-9095	Manufactured Building and Mobile Home Installers	100	60	-30	-34.7	10	\$31,880	High school diploma or equivalent	None	Short-term on-the-job training
49-9096	Riggers	250	290	40	15.8	30	\$48,530	High school diploma or equivalent	None	Moderate- term on- the-job training
49-9097	Signal and Track Switch Repairers	140	150	10	5	20	\$37,460	High school diploma or equivalent	None	Moderate- term on- the-job training
49-9098	HelpersInstallation, Maintenance, and Repair Workers	1,620	1,810	190	11.9	240	\$31,520	High school diploma or equivalent	None	Short-term on-the-job training
49-9099	Installation, Maintenance, and Repair Workers, All Other	1,170	1,250	70	6.3	130	\$38,770	High school diploma or equivalent	None	Moderate- term on- the-job training
51-0000	Production Occupations	105,080	113,130	8,040	7.7	12,580	\$36,930			
51-1000	Supervisors of Production Workers	9,000	10,130	1,120	12.5	1,040	N/A			
51-1011	First-Line Supervisors of Production and Operating Workers	9,000	10,130	1,120	12.5	1,040	\$61,230	High school diploma or equivalent	Less than 5 years	None
51-2000	Assemblers and Fabricators	17,880	18,160	280	1.6	1,970	N/A			
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	590	550	-40	-7.3	60	\$42,590	High school diploma or equivalent	None	Moderate- term on- the-job training
51-2021	Coil Winders, Tapers, and Finishers	290	300	10	3.5	30	\$35,140	High school diploma or equivalent	None	Moderate- term on- the-job training
51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	2,970	3,410	440	14.7	380	\$33,770	High school diploma or equivalent	None	Moderate- term on- the-job training
51-2031	Engine and Other Machine Assemblers	860	840	-20	-2	90	\$34,970	High school diploma or equivalent	None	Moderate- term on- the-job training
51-2041	Structural Metal Fabricators and Fitters	1,140	1,060	-80	-7	110	\$40,380	High school diploma or equivalent	None	Moderate- term on- the-job training
51-2090	Miscellaneous Assemblers and Fabricators	11,730	11,670	-50	-0.5	1,280	\$32,000	High school diploma or equivalent	None	Moderate- term on- the-job training
51-3000	Food Processing Workers	8,290	8,580	290	3.5	1,070	N/A			
51-3011	Bakers	1,730	1,970	250	14.3	270	\$24,440	No formal educational credential	None	Long-term on-the-job training
51-3021	Butchers and Meat Cutters	1,270	1,260	0	-0.2	150	\$27,940	No formal educational credential	None	Long-term on-the-job training
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	1,430	1,430	0	0.1	160	\$25,600	No formal educational credential	None	Short-term on-the-job training
51-3023	Slaughterers and Meat Packers	1,130	1,140	20	1.6	130	\$25,300	No formal educational credential	None	Short-term on-the-job training

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change		Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
51-3092	Food Batchmakers	1,290	1,290	0	0.2	160	\$34,530	High school diploma or equivalent	None	Moderate- term on- the-job training
51-3093	Food Cooking Machine Operators and Tenders	690	680	0	-0.4	120	\$32,680	High school diploma or equivalent	None	Moderate- term on- the-job training
51-4000	Metal Workers and Plastic Workers	25,360	29,300	3,950	15.6	3,210	N/A			
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	740	810	70	8.9	80	\$37,660	High school diploma or equivalent	None	Moderate- term on- the-job training
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	280	280	0	-0.7	30	\$34,150	High school diploma or equivalent	None	Moderate- term on- the-job training
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	230	250	20	6.9	30	\$36,680	High school diploma or equivalent	None	Moderate- term on- the-job training
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	1,860	2,000	150	8	210	\$33,710	High school diploma or equivalent	None	Moderate- term on- the-job training
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	100	90	-10	-9.8	10	\$43,660	High school diploma or equivalent	None	Moderate- term on- the-job training
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,220	1,320	110	8.6	150	\$33,490	High school diploma or equivalent	None	Moderate- term on- the-job training
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	570	650	80	14.9	70	\$35,670	High school diploma or equivalent	None	Moderate- term on- the-job training
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	140	140	0	-2.9	10	\$33,240	High school diploma or equivalent	None	Moderate- term on- the-job training
51-4041	Machinists	3,760	4,440	680	18.1	480	\$42,950	High school diploma or equivalent	None	Long-term on-the-job training
51-4051	Metal-Refining Furnace Operators and Tenders	110	130	30	26.4	10	\$40,350	High school diploma or equivalent	None	Moderate- term on- the-job training
51-4071	Foundry Mold and Coremakers	320	350	30	9.2	40	\$24,050	High school diploma or equivalent	None	Moderate- term on- the-job training
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	1,370	1,450	80	6.1	150	\$30,930	High school diploma or equivalent	None	Moderate- term on- the-job training
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	2,190	2,630	440	20	290	\$35,290	High school diploma or equivalent	None	Moderate- term on- the-job training
51-4111	Tool and Die Makers	320	340	30	8.9	40	\$56,970	Postsecondary non-degree award	None	Long-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	10,340	12,500	2,160	20.9	1,420	\$42,320	High school diploma or equivalent	None	Moderate- term on- the-job training
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	360	410	50	13.5	50	\$37,670	High school diploma or equivalent	None	Moderate- term on- the-job training

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment		Percent Change	Total Annual Openings	Annual	Typical Entry Level Education	Work Experience Required	Typical On-The- Job
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	400	390	-10	-2.7	40	\$39,330	High school diploma or equivalent	None	Training  Moderate- term on- the-job training
51-4192	Layout Workers, Metal and Plastic	80	110	30	31	10	\$32,800	High school diploma or equivalent	None	Moderate- term on- the-job training
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	550	580	30	5.7	60	\$37,860	High school diploma or equivalent	None	Moderate- term on- the-job training
51-4199	Metal Workers and Plastic Workers, All Other	160	140	-20	-12	10	\$57,150	High school diploma or equivalent	None	Moderate- term on- the-job training
51-5100	Printing Workers	1,830	1,870	30	1.9	210	N/A			
51-5111	Prepress Technicians and Workers	140	150	10	5.6	20	\$36,100	Postsecondary non-degree award	None	None
51-5112	Printing Press Operators	1,460	1,510	40	2.9	160	\$32,270	High school diploma or equivalent	None	Moderate- term on- the-job training
51-5113	Print Binding and Finishing Workers	230	210	-20	-7.1	20	\$34,050	High school diploma or equivalent	None	Moderate- term on- the-job training
51-6000	Textile, Apparel, and Furnishings Workers	4,810	4,860	50	1.1	610	N/A			
51-6011	Laundry and Dry-Cleaning Workers	3,000	3,150	150	5	420	\$21,240	No formal educational credential	None	Short-term on-the-job training
51-6021	Pressers, Textile, Garment, and Related Materials	390	320	-70	-18.2	30	\$22,290	No formal educational credential	None	Short-term on-the-job training
51-6031	Sewing Machine Operators	730	670	-70	-9.4	70	\$25,420	No formal educational credential	None	Short-term on-the-job training
51-6052	Tailors, Dressmakers, and Custom Sewers	110	100	-10	-9.9	10	\$28,470	No formal educational credential	None	Moderate- term on- the-job training
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	90	110	10	15.1	10	\$26,770	High school diploma or equivalent	None	Moderate- term on- the-job training
51-6093	Upholsterers	190	200	10	5.8	20	\$32,920	High school diploma or equivalent	None	Moderate- term on- the-job training
51-6099	Textile, Apparel, and Furnishings Workers, All Other	210	230	20	10.6	30	\$54,860	High school diploma or equivalent	None	Short-term on-the-job training
51-7000	Woodworkers	2,460	2,460	0	-0.2	240	N/A			
51-7011	Cabinetmakers and Bench Carpenters	1,650	1,660	10	0.6	160	\$33,110	High school diploma or equivalent	None	Moderate- term on- the-job training
51-7021	Furniture Finishers	110	110	0	-2.7	20	\$29,320	High school diploma or equivalent	None	Short-term on-the-job training
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	280	260	-20	-7.3	30	\$30,790	High school diploma or equivalent	None	Moderate- term on- the-job training
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	220	200	-20	-8.3	20	\$28,580	High school diploma or equivalent	None	Moderate- term on- the-job training

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change		Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
51-8000	Plant and System Operators	5,570	6,440	870	15.6	670	N/A			
51-8013	Power Plant Operators	300	300	0	0	30	\$78,420	High school diploma or equivalent	None	Long-term on-the-job training
51-8021	Stationary Engineers and Boiler Operators	280	320	40	14.1	40	\$63,290	High school diploma or equivalent	None	Long-term on-the-job training
51-8031	Water and Wastewater Treatment Plant and System Operators	2,210	2,200	-10	-0.3	200	\$35,220	High school diploma or equivalent	None	Long-term on-the-job training
51-8091	Chemical Plant and System Operators	130	140	10	5.5	10	\$73,540	High school diploma or equivalent	None	Moderate- term on- the-job training
51-8092	Gas Plant Operators	530	600	80	14.8	70	\$67,730	High school diploma or equivalent	None	Long-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	2,010	2,750	740	36.9	310	\$77,590	High school diploma or equivalent	None	Moderate- term on- the-job training
51-8099	Plant and System Operators, All Other	80	90	10	15.2	10	\$54,730	High school diploma or equivalent	None	Moderate- term on- the-job training
51-9000	Other Production Occupations	29,890	31,340	1,440	4.8	3,570	N/A			
51-9011	Chemical Equipment Operators and Tenders	830	830	0	0.5	80	\$49,260	High school diploma or equivalent	None	Moderate- term on- the-job training
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	430	440	10	2.3	50	\$36,750	High school diploma or equivalent	None	Moderate- term on- the-job training
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	510	560	40	8.2	60	\$35,580	High school diploma or equivalent	None	Moderate- term on- the-job training
51-9022	Grinding and Polishing Workers, Hand	310	280	-30	-9.7	30	\$30,740	No formal educational credential	None	Moderate- term on- the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	1,260	1,350	90	7.1	150	\$37,870	High school diploma or equivalent	None	Moderate- term on- the-job training
51-9031	Cutters and Trimmers, Hand	100	70	-30	-32	10	\$27,930	No formal educational credential	None	Short-term on-the-job training
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	620	660	40	6.1	80	\$39,500	High school diploma or equivalent	None	Moderate- term on- the-job training
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	810	860	60	7	90	\$31,580	High school diploma or equivalent	None	Moderate- term on- the-job training
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	300	330	30	9.8	30	\$35,710	High school diploma or equivalent	None	Moderate- term on- the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	7,020	6,550	-480	-6.8	750	\$43,410	High school diploma or equivalent	None	Moderate- term on- the-job training
51-9071	Jewelers and Precious Stone and Metal Workers	340	360	20	5.7	40	\$38,590	High school diploma or equivalent	None	Long-term on-the-job training

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change		Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
51-9081	Dental Laboratory Technicians	310	380	70	23	50	\$41,560	High school diploma or equivalent	None	Moderate- term on- the-job training
51-9082	Medical Appliance Technicians	90	110	20	19.1	10	\$41,280	High school diploma or equivalent	None	Moderate- term on- the-job training
51-9083	Ophthalmic Laboratory Technicians	210	250	40	17.5	30	\$34,570	High school diploma or equivalent	None	Moderate- term on- the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	2,420	2,530	110	4.3	280	\$29,360	High school diploma or equivalent	None	Moderate- term on- the-job training
51-9123	Painting, Coating, and Decorating Workers	90	110	20	21.1	10	\$38,190	No formal educational credential	None	Moderate- term on- the-job training
51-9124	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	2,550	3,030	480	18.6	330	\$36,830	High school diploma or equivalent	None	Moderate- term on- the-job training
51-9151	Photographic Process Workers and Processing Machine Operators	80	70	-10	-11.4	10	\$31,250	High school diploma or equivalent	None	Short-term on-the-job training
51-9161	Computer Numerically Controlled Tool Operators	3,760	4,080	320	8.5	460	\$38,070	High school diploma or equivalent	None	Moderate- term on- the-job training
51-9162	Computer Numerically Controlled Tool Programmers	380	520	140	36.7	60	\$48,130	Postsecondary non-degree award	None	Moderate- term on- the-job training
51-9191	Adhesive Bonding Machine Operators and Tenders	180	210	30	14.9	30	\$52,790	High school diploma or equivalent	None	Moderate- term on- the-job training
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	470	510	40	7.4	60	\$25,650	High school diploma or equivalent	None	Moderate- term on- the-job training
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	510	620	110	22	70	\$31,710	High school diploma or equivalent	None	Long-term on-the-job training
51-9196	Paper Goods Machine Setters, Operators, and Tenders	1,010	1,040	30	2.7	120	\$48,030	High school diploma or equivalent	None	Moderate- term on- the-job training
51-9198	HelpersProduction Workers	2,400	2,400	10	0.2	340	\$29,800	High school diploma or equivalent	None	Short-term on-the-job training
51-9199	Production Workers, All Other	1,180	1,270	90	7.4	140	\$29,760	High school diploma or equivalent	None	Moderate- term on- the-job training
53-0000	Transportation and Material Moving Occupations	138,670	150,070	11,400	8.2	19,040	\$33,730			
53-1000	Supervisors of Transportation and Material Moving Workers	6,890	7,290	400	5.8	790	N/A			
53-1041	Aircraft Cargo Handling Supervisors	60	60	10	10.3	10	\$49,670	High school diploma or equivalent	Less than 5 years	None
53-1047	FirstLine Supervisors of Transportation & Material Moving Workers, Exc Aircraft Cargo Handling Supervisor	6,840	7,230	390	5.7	780	\$51,700	High school diploma or equivalent	Less than 5 years	None

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change	Percent Change	Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
53-2000	Air Transportation Workers	1,040	1,120	80	7.3	120	N/A			
53-2011	Airline Pilots, Copilots, and Flight Engineers	270	260	-10	-3.4	30	\$103,380	Bachelor's degree	Less than 5 years	Moderate- term on- the-job training
53-2012	Commercial Pilots	340	400	60	17.8	50	\$83,130	High school diploma or equivalent	None	Moderate- term on- the-job training
53-2021	Air Traffic Controllers	380	400	20	3.9	40	\$97,480	Associate's degree	None	Long-term on-the-job training
53-3000	Motor Vehicle Operators	51,540	56,650	5,110	9.9	6,480	N/A			
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	200	250	50	24	30	\$34,170	High school diploma or equivalent	None	Moderate- term on- the-job training
53-3031	Driver/Sales Workers	5,690	6,700	1,010	17.8	780	\$29,040	High school diploma or equivalent	None	Short-term on-the-job training
53-3032	Heavy and Tractor-Trailer Truck Drivers	27,090	29,320	2,230	8.2	3,290	\$48,410	Postsecondary non-degree award	None	Short-term on-the-job training
53-3033	Light Truck or Delivery Services Drivers	11,020	11,600	580	5.3	1,290	\$34,150	High school diploma or equivalent	None	Short-term on-the-job training
53-3052	Bus Drivers, Transit and Intercity	750	840	90	12.4	100	\$33,500	High school diploma or equivalent	None	Moderate- term on- the-job training
53-3058	Passenger Vehicle Drivers, Except Bus Drivers, Transit and Intercity	6,210	7,290	1,070	17.3	890	\$24,930	No formal educational credential	None	Short-term on-the-job training
53-3099	Motor Vehicle Operators, All Other	590	670	70	12.1	110	\$45,650	No formal educational credential	None	Short-term on-the-job training
53-4000	Rail Transportation Workers	920	940	20	1.8	80	N/A			
53-4011	Locomotive Engineers	400	420	20	4.3	40	\$70,820	High school diploma or equivalent	Less than 5 years	Moderate- term on- the-job training
53-4013	Rail Yard Engineers, Dinkey Operators, and Hostlers	160	160	0	-0.6	20	\$59,320	High school diploma or equivalent	None	Moderate- term on- the-job training
53-6000	Other Transportation Workers	3,430	3,760	330	9.7	510	N/A			
53-6021	Parking Lot Attendants	760	860	100	13.6	130	\$22,370	No formal educational credential	None	Short-term on-the-job training
53-6031	Automotive and Watercraft Service Attendants	1,580	1,700	120	7.9	230	\$25,200	No formal educational credential	None	Short-term on-the-job training
53-6041	Traffic Technicians	50	60	0	3.8	10	\$41,030	High school diploma or equivalent	None	Moderate- term on- the-job training
53-6051	Transportation Inspectors	690	750	50	7.8	80	\$64,070	High school diploma or equivalent	None	Moderate- term on- the-job training
53-6098	Aircraft Service Attendants and Transportation Workers, All Other	280	330	50	16.9	50	\$38,490	High school diploma or equivalent	None	Short-term on-the-job training

Table 15: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment		Percent Change	Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The- Job Training
53-7000	Material Moving Workers	74,800	80,250	5,450	7.3	11,050	N/A			
53-7011	Conveyor Operators and Tenders	480	510	30	5.4	60	\$31,440	No formal educational credential	None	Short-term on-the-job training
53-7021	Crane and Tower Operators	670	740	70	10.6	80	\$54,820	High school diploma or equivalent	Less than 5 years	Moderate- term on- the-job training
53-7051	Industrial Truck and Tractor Operators	7,390	7,750	360	4.9	850	\$36,560	No formal educational credential	None	Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	4,460	4,890	430	9.7	690	\$26,930	No formal educational credential	None	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	30,570	32,010	1,440	4.7	4,240	\$31,360	No formal educational credential	None	Short-term on-the-job training
53-7063	Machine Feeders and Offbearers	330	380	60	16.8	50	\$30,220	No formal educational credential	None	Short-term on-the-job training
53-7064	Packers and Packagers, Hand	3,610	3,530	-80	-2.2	480	\$25,720	No formal educational credential	None	Short-term on-the-job training
53-7065	Stockers and Order Fillers	22,700	25,080	2,380	10.5	3,930	\$26,900	High school diploma or equivalent	None	Short-term on-the-job training
53-7071	Gas Compressor and Gas Pumping Station Operators	250	250	10	3.7	30	\$67,850	High school diploma or equivalent	None	Moderate- term on- the-job training
53-7072	Pump Operators, Except Wellhead Pumpers	740	840	110	14.6	100	\$35,650	High school diploma or equivalent	None	Moderate- term on- the-job training
53-7073	Wellhead Pumpers	1,020	1,450	430	41.7	180	\$56,490	High school diploma or equivalent	Less than 5 years	Moderate- term on- the-job training
53-7081	Refuse and Recyclable Material Collectors	2,140	2,320	180	8.4	310	\$35,130	No formal educational credential	None	Short-term on-the-job training
53-7121	Tank Car, Truck, and Ship Loaders	250	270	20	8.5	30	\$38,040	No formal educational credential	None	Short-term on-the-job training

Source: Employment Projections (EP) program, Oklahoma Employment Security Commission, Economic Research & Analysis Division, <u>Industry and Occupational Employment Projections (oklahoma.gov)</u>.