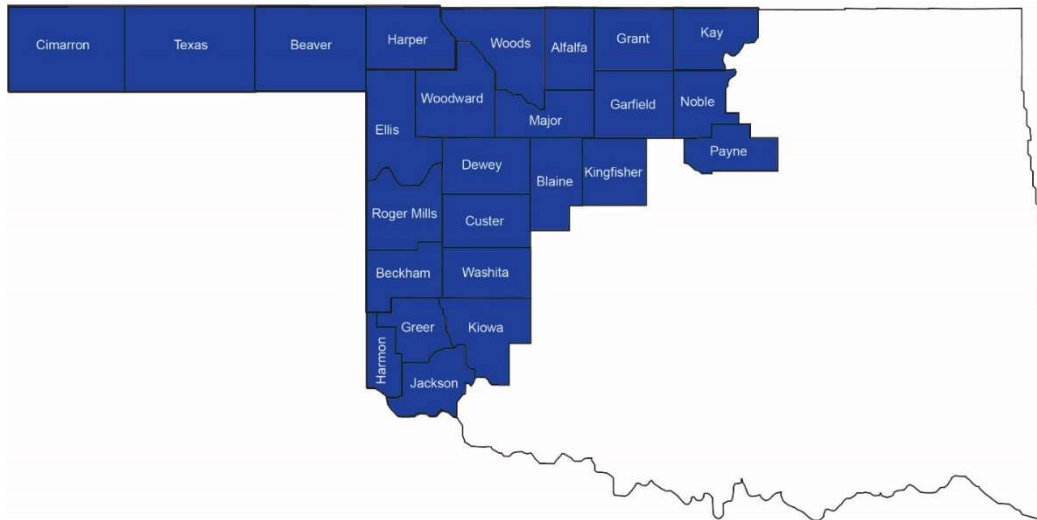


# WESTERN OKLAHOMA WORKFORCE DEVELOPMENT AREA



## 2022 LOCAL BRIEFING



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## Introduction

The Western Oklahoma Workforce Development Area (WFDA) is composed of 25 Oklahoma counties: Alfalfa, Beaver, Beckham, Blaine, Cimarron, Custer, Dewey, Ellis, Garfield, Grant, Greer, Harmon, Harper, Jackson, Kay, Kingfisher, Kiowa, Major, Noble, Payne, Roger Mills, Texas, Washita, Woods, and Woodward. According to the U.S. Census Bureau, this region of the state covers 26,562 square and is home to over 414,000 residents. The following briefing reviews the population, education, labor force, top industries by total jobs, and staffing patterns for state target sectors for the Western Oklahoma WFDA.

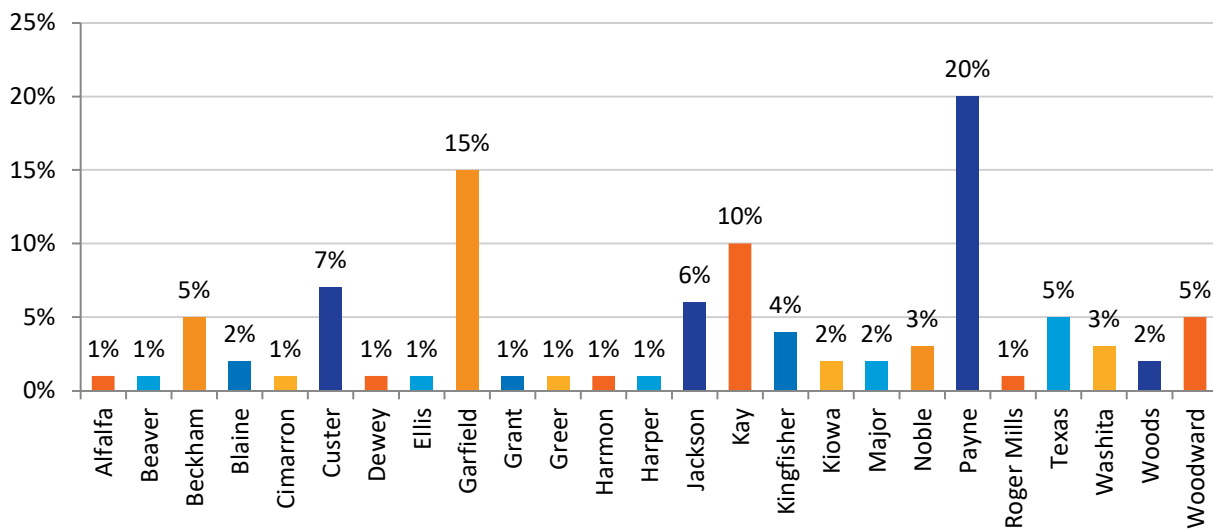
## Population

Between 2016 to 2021, the Western WFDA declined in population by approximately -3%, from 426,078 to 414,208, or around 11,870 fewer people. By 2026, the area is expected to grow by 1% to 416,602 people. The following shows population figures and analyses by county, age, race, and ethnicity in the Western WFDA.

### Population by County

Figure 1 shows the Western WFDA population breakdown by county. Payne County had the largest population, representing 20% of the population in the Western WFDA. Garfield County had the second largest population at 15%. Various counties including Alfalfa, Beaver, and Cimarron, among others, made up the smallest percentages of the population at 1% each.

Figure 1: Population by County



Source: Lightcast- economicmodeling.com- 2022.3

Table 1 provides the population change from 2016 to 2021. During this period, all but one of Western's counties experienced population decline. Kingfisher County was the only county to grow in population at 205 additional people by 2021. Alternatively, Kay County experienced the largest population decrease at 1,915 fewer people.

**Table 1: Population by County**

| County       | 2016 Population | 2021 Population | Total Change   |
|--------------|-----------------|-----------------|----------------|
| Alfalfa      | 5,926           | 5,701           | -225           |
| Beaver       | 5,437           | 5,278           | -159           |
| Beckham      | 22,467          | 21,688          | -779           |
| Blaine       | 9,649           | 9,502           | -147           |
| Cimarron     | 2,181           | 2,171           | -10            |
| Customer     | 29,224          | 28,773          | -451           |
| Dewey        | 4,895           | 4,830           | -65            |
| Ellis        | 4,083           | 3,809           | -274           |
| Garfield     | 62,585          | 61,064          | -1,521         |
| Grant        | 4,454           | 4,430           | -24            |
| Greer        | 5,958           | 5,680           | -278           |
| Harmon       | 2,712           | 2,574           | -138           |
| Harper       | 3,787           | 3,629           | -158           |
| Jackson      | 25,488          | 24,192          | -1,296         |
| Kay          | 44,937          | 43,022          | -1,915         |
| Kingfisher   | 15,661          | 15,866          | 205            |
| Kiowa        | 9,034           | 8,810           | -224           |
| Major        | 7,760           | 7,664           | -96            |
| Noble        | 11,420          | 11,042          | -378           |
| Payne        | 81,924          | 81,913          | -11            |
| Roger Mills  | 3,683           | 3,564           | -119           |
| Texas        | 21,242          | 19,772          | -1,470         |
| Washita      | 11,428          | 10,798          | -630           |
| Woods        | 9,152           | 8,673           | -479           |
| Woodward     | 20,991          | 19,764          | -1,227         |
| <b>Total</b> | <b>426,078</b>  | <b>414,208</b>  | <b>-11,870</b> |

Source: Lightcast- [economicmodeling.com](http://economicmodeling.com)- 2022.3

Table 2 shows the projected population change from 2021 to 2026. During this period, more than half of Western's counties are projected to grow in population. In particular, Beckham County is projected to grow the most during this period with an additional 963 people by 2026. Kay County will continue losing the greatest number of people out of all counties in the Western WFDA at 1,133 fewer people by 2026.

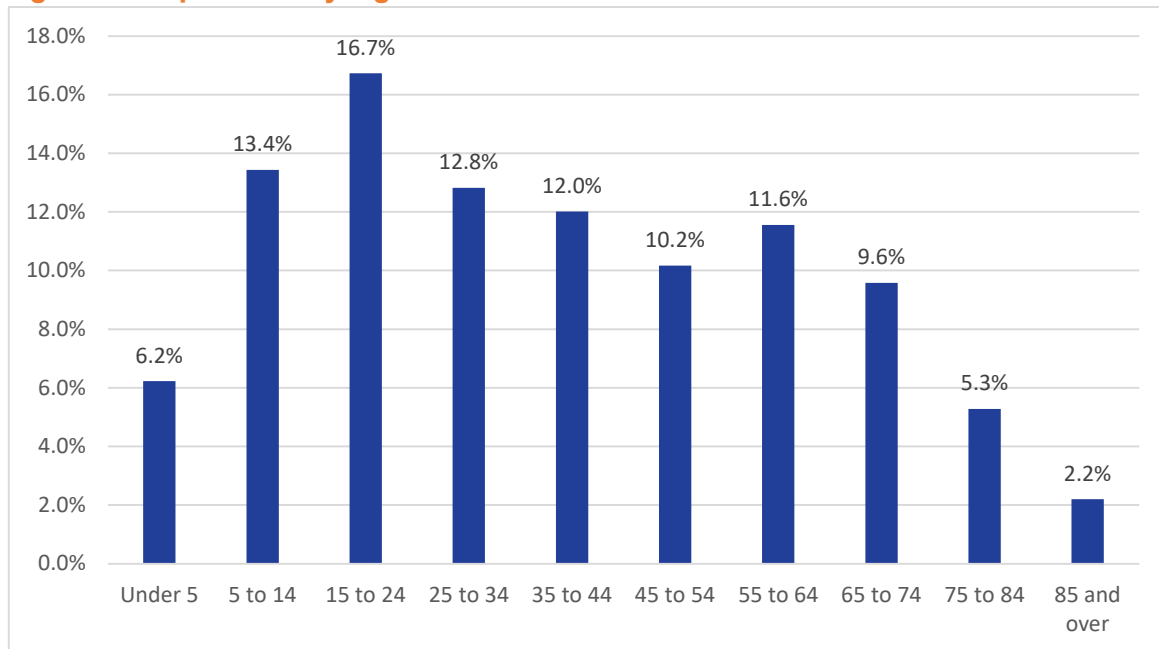
**Table 2: Projected Population by County**

| County       | 2021 Population | 2026 Population | Total Change |
|--------------|-----------------|-----------------|--------------|
| Alfalfa      | 5,701           | 5,698           | -3           |
| Beaver       | 5,278           | 5,685           | 406          |
| Beckham      | 21,688          | 22,652          | 963          |
| Blaine       | 9,502           | 9,801           | 298          |
| Cimarron     | 2,171           | 2,337           | 166          |
| Customer     | 28,773          | 29,448          | 675          |
| Dewey        | 4,830           | 4,938           | 108          |
| Ellis        | 3,809           | 3,790           | -19          |
| Garfield     | 61,064          | 61,819          | 755          |
| Grant        | 4,430           | 4,706           | 277          |
| Greer        | 5,680           | 5,641           | -39          |
| Harmon       | 2,574           | 2,737           | 163          |
| Harper       | 3,629           | 3,747           | 119          |
| Jackson      | 24,192          | 23,612          | -579         |
| Kay          | 43,022          | 41,889          | -1,133       |
| Kingfisher   | 15,866          | 16,143          | 277          |
| Kiowa        | 8,810           | 9,226           | 416          |
| Major        | 7,664           | 8,139           | 476          |
| Noble        | 11,042          | 10,729          | -312         |
| Payne        | 81,913          | 82,559          | 645          |
| Roger Mills  | 3,564           | 3,613           | 50           |
| Texas        | 19,772          | 18,773          | -999         |
| Washita      | 10,798          | 10,774          | -24          |
| Woods        | 8,673           | 8,606           | -67          |
| Woodward     | 19,764          | 19,539          | -226         |
| <b>Total</b> | <b>414,208</b>  | <b>416,602</b>  | <b>2,394</b> |

Source: Lightcast- [economicmodeling.com](http://economicmodeling.com)- 2022.3

## Population by Age

Figure 2 shows Western's population by age in 2021. 15- to 24-year-olds made up the largest percentage of the population at 16.7%. Individuals 5- to 14-years of age were the second largest percentage of the population at 13.4%. Those aged 85-years and over made up the smallest percentage of the population at 2.2%.

**Figure 2: Population by Age**

Source: Lightcast- economicmodeling.com- 2022.3

Table 3 provides the population change by age group from 2016 to 2021. During this period, less than half of all age groups grew in population. In particular, all groups aged 65 and over grew while all younger age groups below 35 declined. Individuals 65- to 74-years of age added the most people at 4,407 while 35- to 44-year-olds were next at 1,829. Those over 85 grew the least at just two more people since 2016. 45- to 54-year-olds declined the most during this period at 5,174 fewer people by 2021.

**Table 3: Population by Age**

| Age          | 2016 Population | 2021 Population | Total Change   |
|--------------|-----------------|-----------------|----------------|
| Under 5      | 29,078          | 25,779          | -3,299         |
| 5 to 14      | 57,343          | 55,640          | -1,703         |
| 15 to 24     | 71,460          | 69,287          | -2,173         |
| 25 to 34     | 57,036          | 53,104          | -3,932         |
| 35 to 44     | 47,952          | 49,781          | 1,829          |
| 45 to 54     | 47,276          | 42,102          | -5,174         |
| 55 to 64     | 50,860          | 47,842          | -3,018         |
| 65 to 74     | 35,287          | 39,694          | 4,407          |
| 75 to 84     | 20,663          | 21,855          | 1,192          |
| 85 and over  | 9,123           | 9,125           | 2              |
| <b>Total</b> | <b>426,078</b>  | <b>414,208</b>  | <b>-11,870</b> |

Source: Lightcast - economicmodeling.com- 2022.3



Table 4 provides the population change by age group from 2021 to 2026. During this period, more than half of all age groups are projected to grow. All age groups above 65 are projected to continue growing while fewer young age groups are expected to decline. In particular, 75- to 84-year-olds will add the most people at 3,924 while 65- to 74-year-olds will add 3,046 more people. People over 85 will grow the least, adding 697 more people in the next five years. Alternatively, 55- to 64-year-olds are projected to decline the most with 5,513 fewer people by 2026. The population of 5- to 14-year-olds and those under 5 is projected to continue declining during this period, at 2,446 and 681 fewer people, respectively.

**Table 4: Projected Population by Age**

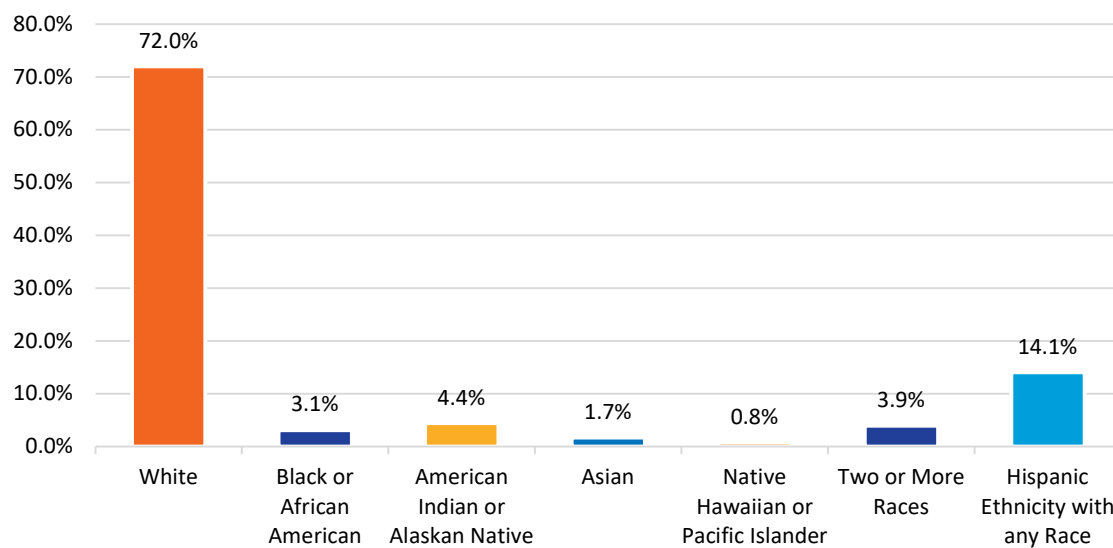
| Demographic       | 2021 Population | 2026 Population | Total Change |
|-------------------|-----------------|-----------------|--------------|
| Under 5           | 25,779          | 25,098          | -681         |
| 5 to 14           | 55,640          | 53,195          | -2,446       |
| 15 to 24          | 69,287          | 70,325          | 1,037        |
| 25 to 34          | 53,104          | 53,901          | 797          |
| 35 to 44          | 49,781          | 49,227          | -554         |
| 45 to 54          | 42,102          | 44,187          | 2,085        |
| 55 to 64          | 47,842          | 42,329          | -5,513       |
| 65 to 74          | 39,694          | 42,741          | 3,046        |
| 75 to 84          | 21,855          | 25,778          | 3,924        |
| 85 years and over | 9,125           | 9,822           | 697          |
| <b>Total</b>      | <b>414,208</b>  | <b>416,602</b>  | <b>2,394</b> |

Source: Lightcast – [economicmodeling.com](http://economicmodeling.com) – 2022.3

## Population by Race and Ethnicity

The following analyses used the racial and ethnicity categories designated by the U.S. Census Bureau. The Census Bureau categorizes “Hispanic” as an ethnicity rather than a 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 provides the Western WFDA population percentages by race and ethnicity. This figure shows that Whites made up the largest percentage of the population at 72%. Hispanic Ethnicity with Any Race made up the second largest percentage of the population at 14.1%. Native Hawaiians or Pacific Islanders made up the smallest percentage of the population at 0.8%.

**Figure 3: Population by Race and Ethnicity**

Source: Lightcast- economicmodeling.com- 2022.3

Table 5 provides the population change by demographic group from 2016 to 2021. During this period, more than half of all demographic groups grew in population. Hispanic Ethnicity with any Race added the most people during this period at 3,496 additional people. Alternatively, American Indian or Alaskan Natives saw the smallest increase in total population during this period at 404 additional people. The White population experienced the largest decline during this period at 17,593 fewer people.

**Table 5: Population by Race and Ethnicity**

| Demographic                         | 2016 Population | 2021 Population | Total Change   |
|-------------------------------------|-----------------|-----------------|----------------|
| White                               | 315,833         | 298,240         | -17,593        |
| Black or African American           | 13,056          | 12,893          | -63            |
| American Indian or Alaskan Native   | 17,957          | 18,361          | 404            |
| Asian                               | 7,417           | 7,002           | -415           |
| Native Hawaiian or Pacific Islander | 2,367           | 3,190           | 823            |
| Two or More Races                   | 14,698          | 16,276          | 1,578          |
| Hispanic Ethnicity with any Race    | 54,750          | 58,246          | 3,496          |
| <b>Total</b>                        | <b>426,078</b>  | <b>414,208</b>  | <b>-11,870</b> |

Source: Lightcast - economicmodeling.com- 2022.3

Table 6 provides the projected population change by demographic group from 2021 to 2026. During this period, most demographic groups are expected to grow in population. The Hispanic population will continue to add the most people to the area with 7,515 additional people by 2026. Alternatively, Black or African Americans will add the least in total population at 1,106 additional people. The White population will continue to decline at 13,234 fewer people by 2026.

**Table 6: Projected Population by Race & Ethnicity**

| Demographic                         | 2021 Population | 2026 Population | Total Change |
|-------------------------------------|-----------------|-----------------|--------------|
| White                               | 298,240         | 285,006         | -13,234      |
| Black or African American           | 12,893          | 13,909          | 1,016        |
| American Indian or Alaskan Native   | 18,361          | 20,150          | 1,789        |
| Asian                               | 7,002           | 8,046           | 1,044        |
| Native Hawaiian or Pacific Islander | 3,190           | 4,383           | 1,193        |
| Two or More Races                   | 16,276          | 19,346          | 3,070        |
| Hispanic Ethnicity with any Race    | 58,246          | 65,762          | 7,515        |
| <b>Total</b>                        | <b>414,208</b>  | <b>416,602</b>  | <b>2,394</b> |

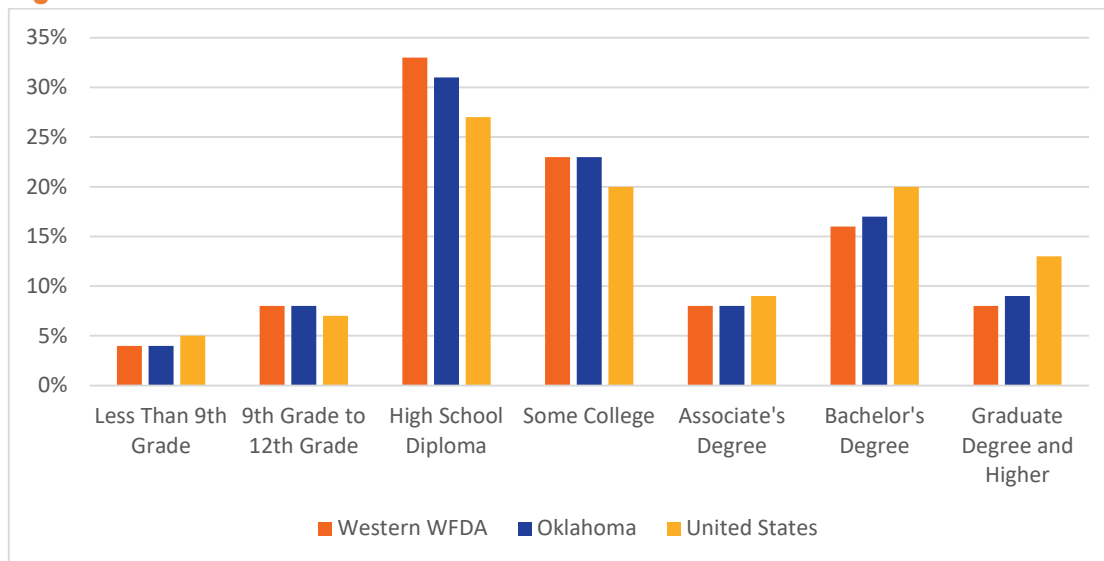
Source: Lightcast – economicmodeling.com – 2022.3

## Education

Colleges, Universities, Career Technology Centers, and K-12 schools are instrumental in developing the workforce. Educational institutions help supply local businesses with a workforce with the necessary labor and skills to be competitive in today's economy. The following section reviews the Western WFDA's educational attainment, provides an educational attainment mismatch analysis, and details the areas educational assets.

### Educational Attainment

Figure 4 compares the Western WFDA educational attainment levels with State of Oklahoma and United States in 2021. In Western, High School Diploma made up the largest share of the population at 33%. This was two percentage points higher than the State average of 31%. The second largest share of the population was Some College at 23%. Those with less than 9<sup>th</sup> grade educational attainment represented the smallest group at 4%, matching the State average.

**Figure 4: Educational Attainment**

Source: *Lightcast- economicmodeling.com- 2022.3*

Table 7 provides the change in educational attainment levels in the Western WFDA from 2016 to 2021. By 2021, fewer people had an education below the High School Diploma level while various higher education levels increased. In particular, those with an Associate's Degree grew the most during this period at 1,538 more people. Those with a Bachelor's Degree had the second largest increase at an additional 1,227 people by 2021. Alternatively, a combined 3,555 fewer people had an education below High School Diploma level by 2021. Those with a High School Diploma declined during this period at 3,959 fewer people at this education level than in 2016. This was also the case for those with a Graduate Degree and Higher with 768 fewer people during this period.

**Table 7: Educational Attainment**

| Education Level            | 2016 Population | 2021 Population | Total Change  |
|----------------------------|-----------------|-----------------|---------------|
| Less Than 9th Grade        | 13,529          | 11,807          | -1,722        |
| 9th Grade to 12th Grade    | 23,064          | 21,231          | -1,833        |
| High School Diploma        | 90,584          | 86,625          | -3,959        |
| Some College               | 59,385          | 60,208          | 823           |
| Associate's Degree         | 18,288          | 19,826          | 1,538         |
| Bachelor's Degree          | 41,344          | 42,571          | 1,227         |
| Graduate Degree and Higher | 22,003          | 21,235          | -768          |
| <b>Total</b>               | <b>268,197</b>  | <b>263,502</b>  | <b>-4,695</b> |

Source: *Lightcast - economicmodeling.com- 2022.3*

Table 8 provides the change in educational attainment levels in Western from 2021 to 2026. By 2026, more people will achieve higher levels of education in the area while those below the High School Diploma Level will decrease. In particular, those with an Associate's Degree will continue to grow the most out of all groups at 1,553 more people. Those with a Bachelor's Degree will be next at an additional 1,374 more people. Additionally, a combined 141 fewer people will have an education below the High School Diploma level by 2026. Those with a Graduate Degree and Higher will grow during this period by 356 people.

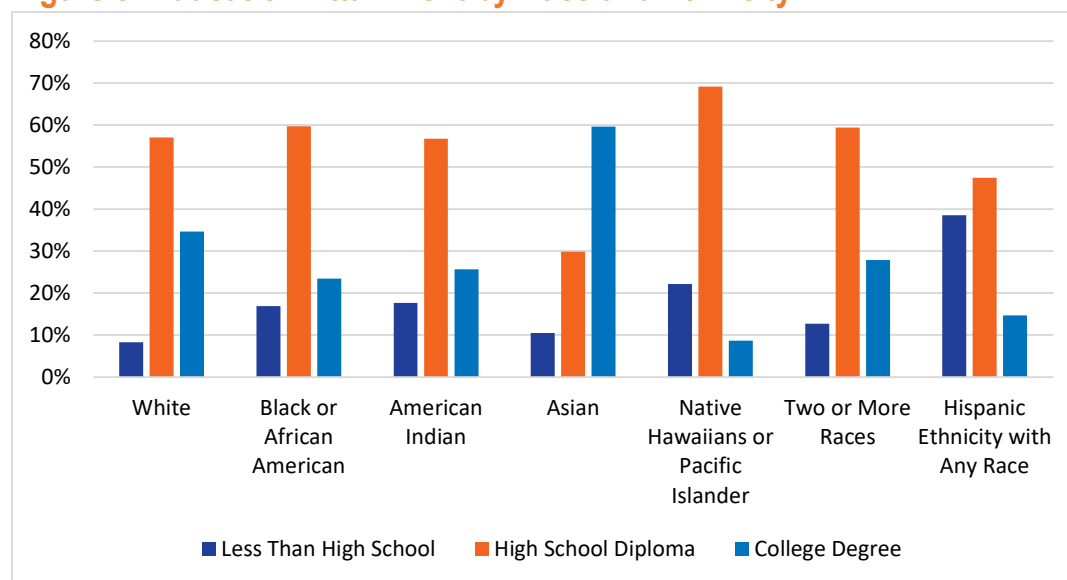
**Table 8: Projected Educational Attainment**

| Education Level            | 2021 Population | 2026 Population | Total Change |
|----------------------------|-----------------|-----------------|--------------|
| Less Than 9th Grade        | 11,807          | 11,678          | -129         |
| 9th Grade to 12th Grade    | 21,231          | 21,219          | -12          |
| High School Diploma        | 86,625          | 86,764          | 139          |
| Some College               | 60,208          | 61,410          | 1,202        |
| Associate's Degree         | 19,826          | 21,378          | 1,553        |
| Bachelor's Degree          | 42,571          | 43,945          | 1,374        |
| Graduate Degree and Higher | 21,235          | 21,591          | 356          |
| <b>Total</b>               | <b>263,502</b>  | <b>267,985</b>  | <b>4,483</b> |

Source: Lightcast – economicmodeling.com – 2022.3

## Educational Attainment by Race and Ethnicity

Figure 5 shows the breakdown of education by race and ethnicity. Across all racial and ethnic groups besides Asian, High School Diploma was the most common educational attainment level. Hispanic Ethnicity with Any Race had the largest population percentage at the Less than High School level at 39%. Native Hawaiians had the highest attainment at the High School Diploma level at 69%. Lastly, Asian Americans had the highest population percentage at the College Degree level at 60%.

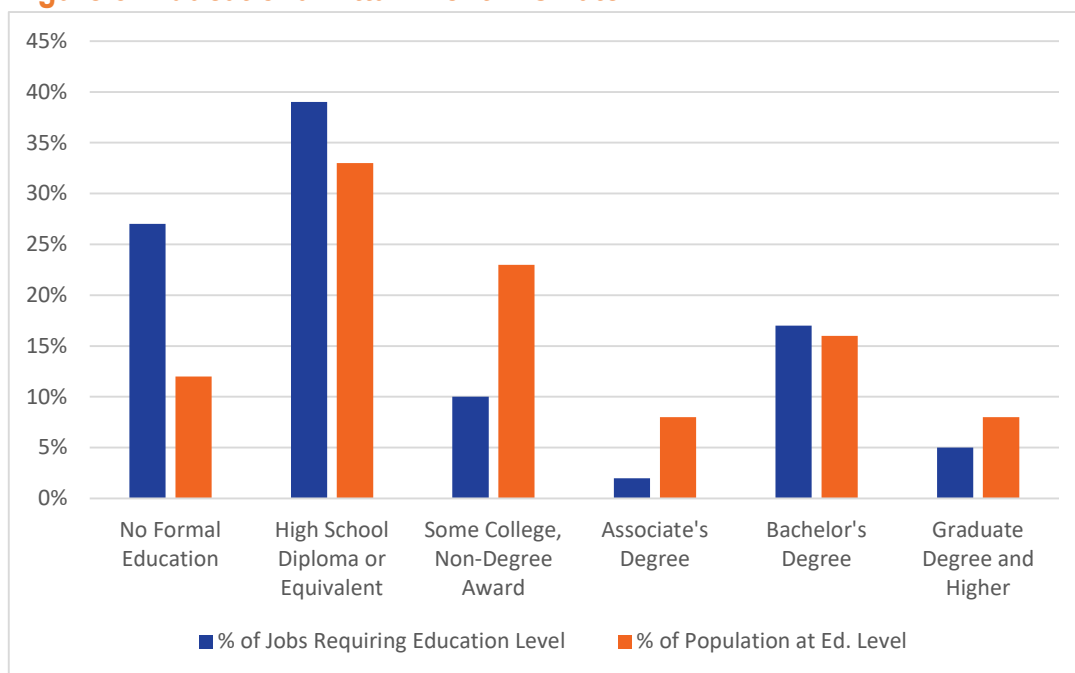
**Figure 5: Education Attainment by Race and Ethnicity**

Source: Lightcast- [economicmodeling.com](http://economicmodeling.com)- 2022.3

## Education Mismatch

Figure 6 below shows an educational attainment mismatch analysis for the Western WFDA.<sup>1</sup> This compares the typical education required for jobs to the educational attainment of the population in 2021. 27% of jobs in Western require no formal education while just 12% 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% of jobs in Western require this level of education while 33% of the population hold this level of education. 31% of the population had Some College or an Associate's Degree, while just 12% of jobs required these levels of education, suggesting underemployment. This is similar for those with a Graduate Degree or Higher, where 8% of the population is prepared for 5% of the jobs in the market. At the Bachelor's Degree level, 16% of the population have the degree while 17% of jobs require it.

<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. This analysis was obtained from Lightcast's underemployment data. 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 the Bureau of Labor Statistics.

**Figure 3: Educational Attainment Mismatch**

Source: Lightcast- [economicmodeling.com](http://economicmodeling.com)- 2022.3

## Educational Assets

Western has 25 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 9 in the appendix details accredited institutions and their degree types.

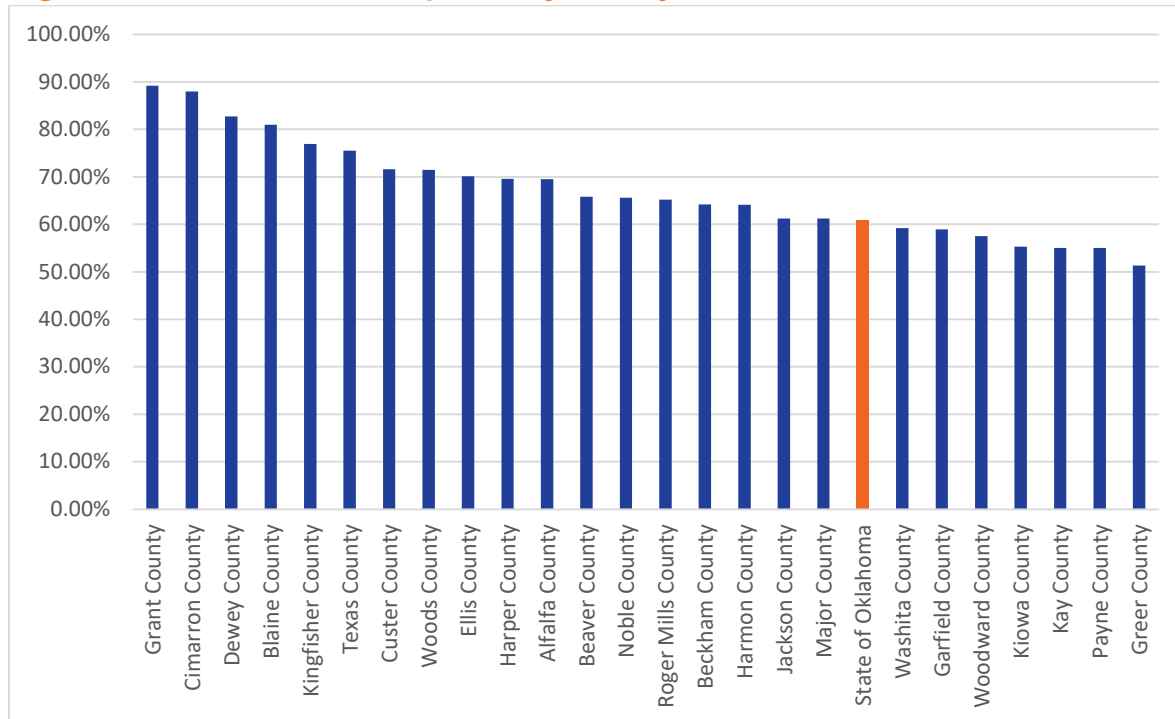
## Labor Force

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 Western's labor force participation rates broken down by county, median earnings, as well as commuter data detailing inflow, outflow, and circulation in the Western WFDA.

## Labor Force Participation by County

Figure 7 shows the Western WFDA labor force participation rate by county in June 2022. Currently, eighteen of twenty five counties in the Western WFDA meet or exceed the Oklahoma state average labor force participation rate of 61%. The highest percentage is in Grant County at 89.2%. The second highest is in Cimarron County at 88%. The third highest is in Dewey County at 82.7%. The lowest percentage is in Greer County at 51.3%.

**Figure 7: Labor Force Participation by County, June 2022**



Source: Lightcast- [economicmodeling.com](https://economicmodeling.com)- 2022.3

Table 10 below shows the labor force participation rate by county from June 2021 to June 2022. During this period, most of Western's county labor force participation rates decreased. This follows the general decline of the state's rate at -0.4% since June 2021. Kingfisher County's labor force participation rate grew during this period at an additional 0.9%. Alfalfa County's rate declined the most at -4.6%.



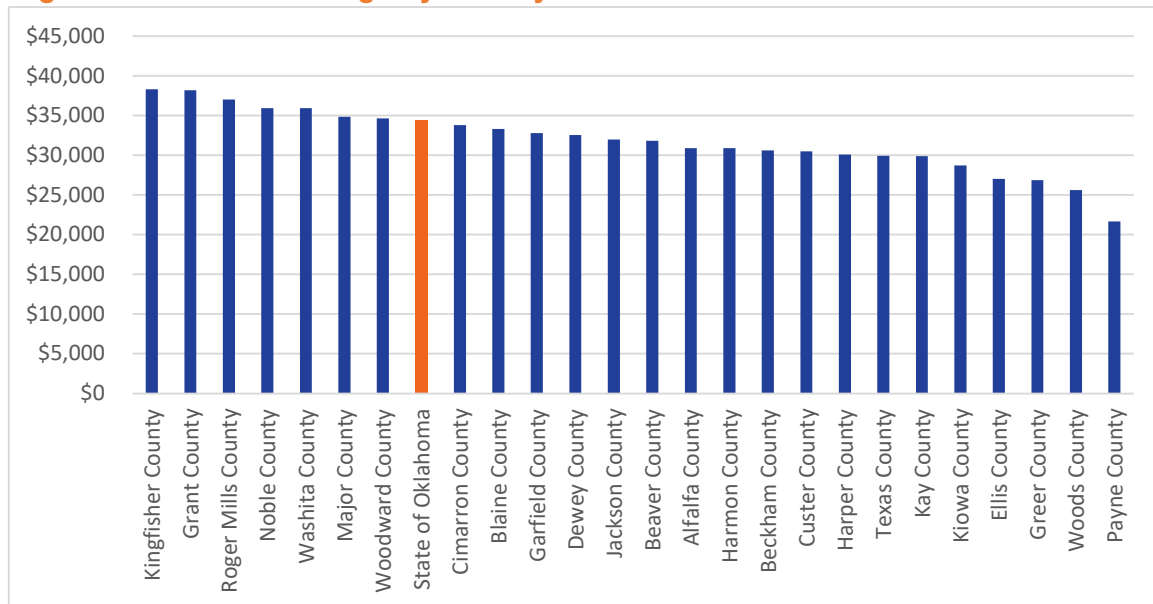
**Table 10: Labor Force Participation by County**

| Area               | June 2021 | June 2022 | Total Change |
|--------------------|-----------|-----------|--------------|
| State of Oklahoma  | 61.4%     | 61.0%     | -0.4%        |
| Alfalfa County     | 74.1%     | 69.5%     | -4.6%        |
| Beaver County      | 69.0%     | 65.8%     | -3.2%        |
| Beckham County     | 67.3%     | 64.2%     | -3.2%        |
| Blaine County      | 82.5%     | 81.0%     | -1.5%        |
| Cimarron County    | 87.4%     | 88.0%     | 0.6%         |
| Custer County      | 72.1%     | 71.6%     | -0.5%        |
| Dewey County       | 81.5%     | 82.7%     | 1.2%         |
| Ellis County       | 70.9%     | 70.1%     | -0.8%        |
| Garfield County    | 59.7%     | 58.9%     | -0.7%        |
| Grant County       | 89.3%     | 89.2%     | -0.1%        |
| Greer County       | 54.1%     | 51.3%     | -2.8%        |
| Harmon County      | 66.8%     | 64.1%     | -2.7%        |
| Harper County      | 70.5%     | 69.6%     | -0.9%        |
| Jackson County     | 61.4%     | 61.2%     | -0.2%        |
| Kay County         | 56.3%     | 55.0%     | -1.3%        |
| Kingfisher County  | 76.0%     | 76.9%     | 0.9%         |
| Kiowa County       | 56.5%     | 55.3%     | -1.2%        |
| Major County       | 63.8%     | 61.2%     | -2.6%        |
| Noble County       | 65.0%     | 65.6%     | 0.6%         |
| Payne County       | 55.8%     | 55.0%     | -0.8%        |
| Roger Mills County | 67.7%     | 65.2%     | -2.4%        |
| Texas County       | 74.7%     | 75.5%     | 0.8%         |
| Washita County     | 60.8%     | 59.2%     | -1.7%        |
| Woods County       | 74.0%     | 71.5%     | -2.5%        |
| Woodward County    | 60.1%     | 57.5%     | -2.6%        |

Source: Lightcast- [economicmodeling.com](https://economicmodeling.com)- 2022.3

## Median Earnings

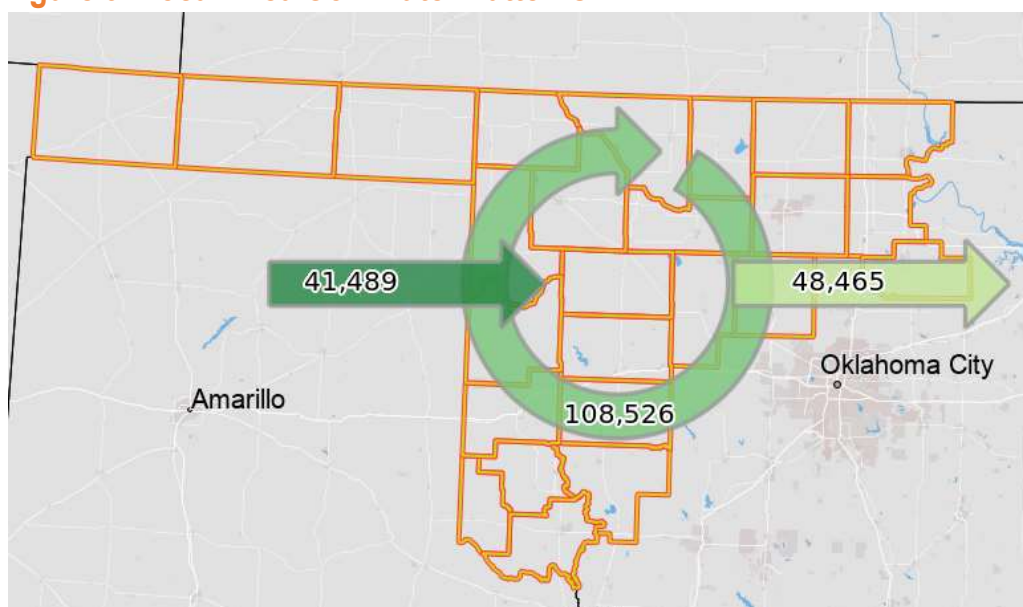
Figure 8 provides the median earnings for those that are over the age of 16 in each of Western's counties and the State of Oklahoma as a whole. The highest earnings were found in Kingfisher County at \$38,306. The second highest earnings were in Grant County at \$38,175. The third highest were in Noble County at \$37,025. The lowest median earnings were in Payne County at \$21,656. Overall, less than half of Western's counties boasted median earnings beyond those found at the state level, while the rest fell below this level.

**Figure 8: Median Earnings by County**

Source: American Community Survey (ACS) 2021 5-Year Estimates

## 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 the Western WFDA, 41,489 work in the area and did not live there. 108,526 lived there and worked there. 48,465 lived in Western WFDA and worked outside the area (see Figure 9).

**Figure 9: Local Area Commuter Patterns**

Source: Center of Economic Studies (CES), OnTheMap, 2019

## 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 [www.census.gov/eos/www/naics](http://www.census.gov/eos/www/naics).

Table 11 below shows the top ten industries in the Western WFDA by the total number of jobs in 2021. There was an estimated 153,144 number of total jobs in Western in 2021. The largest sector was Government with 40,229 jobs. The second largest sector was Retail Trade with 19,146 jobs. The tenth largest sector was Professional, Scientific, and Technical Services with 4,504 jobs. Together, these industries made up 85% of the total jobs in the Western WFDA in 2021.

**Table 11: Top Industries by Total Jobs**

| NAICS | Description  | 2021 Jobs | Percentage of Total Employment |
|-------|--|-----------|--------------------------------|
| 90    | Government   | 40,229    | 26%                            |
| 44    | Retail Trade   | 19,146    | 13%                            |
| 72    | Accommodation and Food Services  | 14,856    | 10%                            |
| 31    | Manufacturing  | 14,101    | 9%                             |
| 62    | Health Care and Social Assistance  | 13,586    | 9%                             |
| 23    | Construction   | 7,279     | 5%                             |
| 21    | Mining, Quarrying, and Oil and Gas Extraction                            | 5,812     | 4%                             |
| 42    | Wholesale Trade  | 5,117     | 3%                             |
| 56    | Administrative and Support and Waste Management and Remediation Services | 5,088     | 3%                             |
| 54    | Professional, Scientific, and Technical Services                         | 4,504     | 3%                             |

Source: Lightcast- economicmodeling.com- 2022.3

## Target Sectors

Oklahoma Department of Commerce has identified [Key Industry Sectors](#) for the state of Oklahoma. The Key Industry Sectors provide a competitive advantage in a global economy. They exhibit significant potential for employment growth and provide wealth generating employment opportunities. These Target Sectors include Aerospace and Defense, Agribusiness and Bioscience, Renewable and Traditional Energy, Transportation and Logistics, Automotive, and Manufacturing. Growth in these areas lead to workforce needs in complementary sectors. These complementary sectors include Construction, Health Care, Education, and Creative Industries. Figure 10 shows both target and complementary sectors. For a complete list of industries that are included in each of the sectors, the 5-digit NAICS codes are included in the appendix.

**Figure 10: Target and Complementary Sectors**

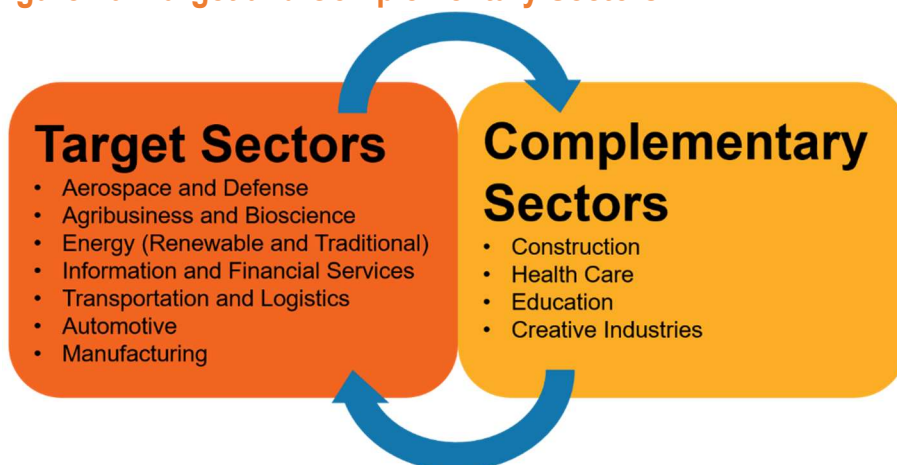


Table 12 shows the estimated number of new jobs for each of the target sectors in 2026, along with the growth rate and average earnings per job in the target sector. Three target sectors are projected to grow in the area while three are not projected to grow.

**Table 12: Target Sector Projected Growth**

| Target Sector                                      | 2021 Jobs | 2026 Jobs | Estimated Net Job Growth (2021-2026) | Growth Rate (2021-2026) | Average Earnings Per Job |
|--|-----------|-----------|--------------------------------------|-------------------------|--------------------------|
| Aerospace and Defense                              | 4,206     | 4,570     | 364                                  | 9%                      | \$84,262                 |
| Agribusiness and Bioscience                        | 14,529    | 15,225    | 696                                  | 5%                      | \$63,588                 |
| Energy (Renewable and Traditional)                 | 11,330    | 10,572    | -758                                 | -7%                     | \$94,571                 |
| Information and Financial Services                 | 7,483     | 7,475     | -8                                   | 0%                      | \$80,743                 |
| Manufacturing                                      | 14,101    | 15,335    | 1,234                                | 9%                      | \$66,819                 |
| Transportation and Logistics (Includes Automotive) | 9,414     | 9,390     | -24                                  | 0%                      | \$77,480                 |

Source: Lightcast- [economicmodeling.com](http://economicmodeling.com)- 2022.3

## Target Sector Staffing Patterns

Staffing patterns were generated for each of the target sectors using Lightcast 2022.3 datarun. The staffing pattern analysis computes the occupational makeup of the target sectors by percentages. The appendix includes two tables for each target sector. The first table shows the top ten occupations by number of current jobs. The second table shows the top 10 occupations by number of new jobs projected for 2026.

## Summary

This local briefing reviewed the Western WFDA's population, educational attainment and assets, labor force information, top industry data, and target and complementary sectors. The Western WFDA is one of six Workforce Development Areas (WFDAs) in Oklahoma. The Oklahoma Office of Workforce Development prepares briefings for each of the Workforce Development Areas, including a state-level briefing. Briefings are available at [oklahomaworks.gov/workforce-briefings](http://oklahomaworks.gov/workforce-briefings).

## Appendix

### Educational Assets

**Table 9: Educational Assets**

| Institution                            | Institution Type | City        | County     | Degree Types                       |
|--|------------------|-------------|------------|------------------------------------|
| Northern Oklahoma College              | Public           | Tonkawa     | Kay        | Associate, Certificate             |
| Northern Oklahoma College              | Public           | Enid        | Garfield   | Associate, Certificate             |
| Northern Oklahoma College              | Public           | Stillwater  | Payne      | Associate, Certificate             |
| Northwestern Oklahoma State University | Public           | Alva        | Woods,     | Bachelor, Master, Ph.D.            |
| Northwestern Oklahoma State University | Public           | Enid        | Garfield   | Bachelor, Master, Ph.D.            |
| Northwestern Oklahoma State University | Public           | Woodward    | Woodward   | Bachelor, Master, Ph.D.            |
| Oklahoma Panhandle State University    | Public           | Goodwell    | Texas      | Associate, Bachelor, Certificate   |
| Oklahoma State University              | Public           | Stillwater  | Payne      | Bachelor, Master, Ph.D.            |
| Southeastern Oklahoma State University | Public           | Weatherford | Custer     | Bachelor, Master                   |
| Southeastern Oklahoma State University | Public           | Sayre       | Beckham    | Bachelor, Master                   |
| Southwestern Oklahoma State University | Public           | Weatherford | Custer     | Bachelor, Master, Associate, Ph.D. |
| University Center at Ponca City        | Public           | Ponca City  | Kay        | Associate, Bachelor, Master, Ph.D. |
| Western Oklahoma State College         | Public           | Altus       | Jackson    | associate, Certificate             |
| Autry                                  | Technical School | Enid        | Garfield   | Certificate                        |
| Chisholm Trail                         | Technical School | Omega       | Kingfisher | Certificate                        |
| High Plains                            | Technical School | Woodward    | Woodward   | Certificate                        |
| Meridian                               | Technical School | Stillwater  | Payne      | Certificate                        |
| Northwest                              | Technical School | Alva        | Woods      | Certificate                        |
| Northwest                              | Technical School | Fairview    | Major      | Certificate                        |
| Pioneer                                | Technical School | Ponca City  | Kay        | Certificate                        |

| Institution | Institution Type | City         | County  | Degree Types |
|-------------|------------------|--------------|---------|--------------|
| Southwest   | Technical School | Altus        | Jackson | Certificate  |
| Western     | Technical School | Burns Flat   | Washita | Certificate  |
| Western     | Technical School | Elk City     | Beckham | Certificate  |
| Western     | Technical School | Hobart Sayre | Kiowa   | Certificate  |
| Western     | Technical School | Weatherford  | Custer  | Certificate  |

Source: Oklahoma State Regents of Higher Education, CareerTech.org

## Target and Complementary NAICS Codes

### Aerospace and Defense Industries

| <b>NAICS</b> | <b>Industry Description</b>  |
|--------------|--|
| 32521        | Resin and Synthetic Rubber Manufacturing   |
| 32551        | Paint and Coating Manufacturing  |
| 32592        | Explosives Manufacturing   |
| 32629        | Other Rubber Product Manufacturing   |
| 33231        | Plate Work and Fabricated Structural Product Manufacturing                           |
| 33271        | Machine Shops  |
| 33281        | Coating, Engraving, Heat Treating, and Allied Activities                             |
| 33299        | All Other Fabricated Metal Product Manufacturing                                     |
| 33351        | Metalworking Machinery Manufacturing   |
| 33361        | Engine, Turbine, and Power Transmission Equipment Manufacturing                      |
| 33411        | Computer and Peripheral Equipment Manufacturing                                      |
| 33441        | Semiconductor and Other Electronic Component Manufacturing                           |
| 33451        | Navigational, Measuring, Electromedical, and Control Instruments Manufacturing       |
| 33531        | Electrical Equipment Manufacturing   |
| 33599        | All Other Electrical Equipment and Component Manufacturing                           |
| 33641        | Aerospace Product and Parts Manufacturing  |
| 42386        | Transportation Equipment and Supplies (except Motor Vehicle) Merchant Wholesalers    |
| 48111        | Scheduled Air Transportation   |
| 48121        | Nonscheduled Air Transportation  |
| 48811        | Airport Operations   |
| 48819        | Other Support Activities for Air Transportation                                      |
| 54133        | Engineering Services   |
| 54138        | Testing Laboratories   |
| 54151        | Computer Systems Design and Related Services   |
| 54161        | Management Consulting Services   |
| 54169        | Other Scientific and Technical Consulting Services                                   |
| 54171        | Research and Development in the Physical, Engineering, and Life Sciences             |
| 61151        | Technical and Trade Schools  |
|              | Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) |
| 81131        | Repair and Maintenance   |
| 90120        | Federal Government, Military   |

### Energy Industries

| <b>NAICS</b> | <b>Industry Description</b>                            |
|--------------|--|
| 21112        | Crude Petroleum Extraction                             |
| 21113        | Natural Gas Extraction                                 |
| 21211        | Coal Mining  |
| 21311        | Support Activities for Mining                          |
| 22111        | Electric Power Generation                              |
| 22112        | Electric Power Transmission, Control, and Distribution |



**NAICS Industry Description**

|       |   |
|-------|---|
| 22121 | Natural Gas Distribution  |
| 23712 | Oil and Gas Pipeline and Related Structures Construction                        |
| 23713 | Power and Communication Line and Related Structures Construction                |
| 32411 | Petroleum Refineries  |
| 32412 | Asphalt Paving, Roofing, and Saturated Materials Manufacturing                  |
| 32419 | Other Petroleum and Coal Products Manufacturing                                 |
| 32511 | Petrochemical Manufacturing   |
| 32512 | Industrial Gas Manufacturing  |
| 33121 | Iron and Steel Pipe and Tube Manufacturing from Purchased Steel                 |
| 33241 | Power Boiler and Heat Exchanger Manufacturing                                   |
| 33242 | Metal Tank (Heavy Gauge) Manufacturing  |
| 33291 | Metal Valve Manufacturing   |
| 33313 | Mining and Oil and Gas Field Machinery Manufacturing                            |
|       | Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment  |
| 33341 | Manufacturing   |
| 33361 | Engine, Turbine, and Power Transmission Equipment Manufacturing                 |
| 33391 | Pump and Compressor Manufacturing   |
| 33531 | Electrical Equipment Manufacturing  |
| 33591 | Battery Manufacturing   |
| 42352 | Coal and Other Mineral and Ore Merchant Wholesalers                             |
| 42471 | Petroleum Bulk Stations and Terminals   |
|       | Petroleum and Petroleum Products Merchant Wholesalers (except Bulk Stations and |
| 42472 | Terminals)  |
| 48611 | Pipeline Transportation of Crude Oil  |
| 48621 | Pipeline Transportation of Natural Gas  |
| 48691 | Pipeline Transportation of Refined Petroleum Products                           |
| 48699 | All Other Pipeline Transportation   |
| 54136 | Geophysical Surveying and Mapping Services                                      |
| 54138 | Testing Laboratories  |

**Agribusiness and Biosciences Industries****NAICS Industry Description**

|       |   |
|-------|---|
| 11100 | Crop Production                                   |
| 11200 | Animal Production                                 |
| 11311 | Timber Tract Operations                           |
| 11321 | Forest Nurseries and Gathering of Forest Products |
| 11331 | Logging   |
| 11411 | Fishing   |
| 11421 | Hunting and Trapping                              |
| 11511 | Support Activities for Crop Production            |
| 11521 | Support Activities for Animal Production          |
| 11531 | Support Activities for Forestry                   |
| 31111 | Animal Food Manufacturing                         |

**NAICS Industry Description**

|       |  |
|-------|--|
| 31121 | Flour Milling and Malt Manufacturing   |
| 31122 | Starch and Vegetable Fats and Oils Manufacturing                               |
| 31123 | Breakfast Cereal Manufacturing   |
| 31131 | Sugar Manufacturing  |
| 31134 | Nonchocolate Confectionery Manufacturing                                       |
| 31135 | Chocolate and Confectionery Manufacturing                                      |
| 31141 | Frozen Food Manufacturing  |
| 31142 | Fruit and Vegetable Canning, Pickling, and Drying                              |
| 31151 | Dairy Product (except Frozen) Manufacturing                                    |
| 31152 | Ice Cream and Frozen Dessert Manufacturing                                     |
| 31161 | Animal Slaughtering and Processing   |
| 31171 | Seafood Product Preparation and Packaging                                      |
| 31181 | Bread and Bakery Product Manufacturing   |
| 31182 | Cookie, Cracker, and Pasta Manufacturing                                       |
| 31183 | Tortilla Manufacturing   |
| 31191 | Snack Food Manufacturing   |
| 31192 | Coffee and Tea Manufacturing   |
| 31193 | Flavoring Syrup and Concentrate Manufacturing                                  |
| 31194 | Seasoning and Dressing Manufacturing   |
| 31199 | All Other Food Manufacturing   |
| 31211 | Soft Drink and Ice Manufacturing   |
| 31212 | Breweries  |
| 31213 | Wineries   |
| 31214 | Distilleries   |
| 32111 | Sawmills and Wood Preservation   |
| 32121 | Veneer, Plywood, and Engineered Wood Product Manufacturing                     |
| 32191 | Millwork   |
| 32192 | Wood Container and Pallet Manufacturing  |
| 32199 | All Other Wood Product Manufacturing   |
| 32211 | Pulp Mills   |
| 32212 | Paper Mills  |
| 32213 | Paperboard Mills   |
| 32221 | Paperboard Container Manufacturing   |
| 32222 | Paper Bag and Coated and Treated Paper Manufacturing                           |
| 32512 | Industrial Gas Manufacturing   |
| 32519 | Other Basic Organic Chemical Manufacturing                                     |
| 32522 | Artificial and Synthetic Fibers and Filaments Manufacturing                    |
| 32531 | Fertilizer Manufacturing   |
| 32532 | Pesticide and Other Agricultural Chemical Manufacturing                        |
| 32541 | Pharmaceutical and Medicine Manufacturing                                      |
| 33311 | Agricultural Implement Manufacturing   |
| 33451 | Navigational, Measuring, Electromedical, and Control Instruments Manufacturing |
| 33461 | Manufacturing and Reproducing Magnetic and Optical Media                       |

**NAICS Industry Description**

|       |   |
|-------|---|
| 33911 | Medical Equipment and Supplies Manufacturing                              |
| 42345 | Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesalers |
| 42346 | Ophthalmic Goods Merchant Wholesalers                                     |
| 42382 | Farm and Garden Machinery and Equipment Merchant Wholesalers              |
| 42421 | Drugs and Druggists' Sundries Merchant Wholesalers                        |
| 42443 | Dairy Product (except Dried or Canned) Merchant Wholesalers               |
| 42444 | Poultry and Poultry Product Merchant Wholesalers                          |
| 42445 | Confectionery Merchant Wholesalers  |
| 42446 | Fish and Seafood Merchant Wholesalers                                     |
| 42447 | Meat and Meat Product Merchant Wholesalers                                |
| 42448 | Fresh Fruit and Vegetable Merchant Wholesalers                            |
| 42449 | Other Grocery and Related Products Merchant Wholesalers                   |
| 42451 | Grain and Field Bean Merchant Wholesalers                                 |
| 42452 | Livestock Merchant Wholesalers  |
| 42459 | Other Farm Product Raw Material Merchant Wholesalers                      |
| 42481 | Beer and Ale Merchant Wholesalers   |
| 42482 | Wine and Distilled Alcoholic Beverage Merchant Wholesalers                |
| 42491 | Farm Supplies Merchant Wholesalers  |
| 49313 | Farm Product Warehousing and Storage                                      |
| 54133 | Engineering Services  |
| 54138 | Testing Laboratories  |
| 54162 | Environmental Consulting Services   |
| 54171 | Research and Development in the Physical, Engineering, and Life Sciences  |
| 54194 | Veterinary Services   |
| 54199 | All Other Professional, Scientific, and Technical Services                |
| 62151 | Medical and Diagnostic Laboratories                                       |

**Informational and Financial Services Industries****NAICS Industry Description**

|       |   |
|-------|---|
| 33411 | Computer and Peripheral Equipment Manufacturing             |
| 51121 | Software Publishers   |
| 51731 | Wired and Wireless Telecommunications Carriers              |
| 51741 | Satellite Telecommunications                                |
| 51791 | Other Telecommunications                                    |
| 51821 | Data Processing, Hosting, and Related Services              |
| 51913 | Internet Publishing and Broadcasting and Web Search Portals |
| 51919 | All Other Information Services                              |
| 52111 | Monetary Authorities-Central Bank                           |
| 52211 | Commercial Banking  |
| 52212 | Savings Institutions  |
| 52213 | Credit Unions   |
| 52219 | Other Depository Credit Intermediation                      |
| 52221 | Credit Card Issuing   |

**NAICS Industry Description**

|       |  |
|-------|--|
| 52222 | Sales Financing  |
| 52229 | Other Nondepository Credit Intermediation                                |
| 52231 | Mortgage and Nonmortgage Loan Brokers                                    |
| 52232 | Financial Transactions Processing, Reserve, and Clearinghouse Activities |
| 52239 | Other Activities Related to Credit Intermediation                        |
| 52311 | Investment Banking and Securities Dealing                                |
| 52312 | Securities Brokerage   |
| 52313 | Commodity Contracts Dealing  |
| 52314 | Commodity Contracts Brokerage  |
| 52321 | Securities and Commodity Exchanges                                       |
| 52391 | Miscellaneous Intermediation   |
| 52392 | Portfolio Management   |
| 52393 | Investment Advice  |
| 52399 | All Other Financial Investment Activities                                |
| 52411 | Direct Life, Health, and Medical Insurance Carriers                      |
| 52412 | Direct Insurance (except Life, Health, and Medical) Carriers             |
| 52413 | Reinsurance Carriers   |
| 52429 | Other Insurance Related Activities                                       |
| 52511 | Pension Funds  |
| 52512 | Health and Welfare Funds   |
| 52519 | Other Insurance Funds  |
| 52591 | Open-End Investment Funds  |
| 52592 | Trusts, Estates, and Agency Accounts                                     |
| 52599 | Other Financial Vehicles   |
| 54121 | Accounting, Tax Preparation, Bookkeeping, and Payroll Services           |
| 54151 | Computer Systems Design and Related Services                             |
| 55111 | Management of Companies and Enterprises                                  |

**Transportation and Logistics Industries****NAICS Industry Description**

|       |  |
|-------|--|
| 32621 | Tire Manufacturing   |
| 33361 | Engine, Turbine, and Power Transmission Equipment Manufacturing                |
| 33451 | Navigational, Measuring, Electromedical, and Control Instruments Manufacturing |
| 33611 | Automobile and Light Duty Motor Vehicle Manufacturing                          |
| 33612 | Heavy Duty Truck Manufacturing   |
| 33621 | Motor Vehicle Body and Trailer Manufacturing                                   |
| 33631 | Motor Vehicle Gasoline Engine and Engine Parts Manufacturing                   |
| 33632 | Motor Vehicle Electrical and Electronic Equipment Manufacturing                |
| 33633 | Motor Vehicle Steering and Suspension Components (except Spring) Manufacturing |
| 33634 | Motor Vehicle Brake System Manufacturing                                       |
| 33635 | Motor Vehicle Transmission and Power Train Parts Manufacturing                 |
| 33636 | Motor Vehicle Seating and Interior Trim Manufacturing                          |
| 33637 | Motor Vehicle Metal Stamping   |

**NAICS Industry Description**

|       |   |
|-------|---|
| 33639 | Other Motor Vehicle Parts Manufacturing   |
| 33651 | Railroad Rolling Stock Manufacturing  |
| 33661 | Ship and Boat Building  |
| 33699 | Other Transportation Equipment Manufacturing  |
| 42311 | Automobile and Other Motor Vehicle Merchant Wholesalers   |
| 42312 | Motor Vehicle Supplies and New Parts Merchant Wholesalers                                       |
| 42313 | Tire and Tube Merchant Wholesalers  |
| 42314 | Motor Vehicle Parts (Used) Merchant Wholesalers   |
| 42321 | Furniture Merchant Wholesalers  |
| 42322 | Home Furnishing Merchant Wholesalers  |
| 42331 | Lumber, Plywood, Millwork, and Wood Panel Merchant Wholesalers                                  |
| 42332 | Brick, Stone, and Related Construction Material Merchant Wholesalers                            |
| 42333 | Roofing, Siding, and Insulation Material Merchant Wholesalers                                   |
| 42339 | Other Construction Material Merchant Wholesalers  |
| 42341 | Photographic Equipment and Supplies Merchant Wholesalers  |
| 42342 | Office Equipment Merchant Wholesalers   |
| 42343 | Computer and Computer Peripheral Equipment and Software Merchant Wholesalers                    |
| 42344 | Other Commercial Equipment Merchant Wholesalers   |
| 42345 | Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesalers                       |
| 42346 | Ophthalmic Goods Merchant Wholesalers   |
| 42349 | Other Professional Equipment and Supplies Merchant Wholesalers                                  |
| 42351 | Metal Service Centers and Other Metal Merchant Wholesalers                                      |
| 42352 | Coal and Other Mineral and Ore Merchant Wholesalers   |
| 42361 | Electrical Apparatus and Equipment, Wiring Supplies, and Related Equipment Merchant Wholesalers |
| 42362 | Household Appliances, Electric Housewares, and Consumer Electronics Merchant Wholesalers        |
| 42369 | Other Electronic Parts and Equipment Merchant Wholesalers                                       |
| 42371 | Hardware Merchant Wholesalers   |
| 42372 | Plumbing and Heating Equipment and Supplies (Hydronics) Merchant Wholesalers                    |
| 42373 | Warm Air Heating and Air-Conditioning Equipment and Supplies Merchant Wholesalers               |
| 42374 | Refrigeration Equipment and Supplies Merchant Wholesalers                                       |
| 42381 | Construction and Mining (except Oil Well) Machinery and Equipment Merchant Wholesalers          |
| 42382 | Farm and Garden Machinery and Equipment Merchant Wholesalers                                    |
| 42383 | Industrial Machinery and Equipment Merchant Wholesalers   |
| 42384 | Industrial Supplies Merchant Wholesalers  |
| 42385 | Service Establishment Equipment and Supplies Merchant Wholesalers                               |
| 42386 | Transportation Equipment and Supplies (except Motor Vehicle) Merchant Wholesalers               |
| 42391 | Sporting and Recreational Goods and Supplies Merchant Wholesalers                               |
| 42392 | Toy and Hobby Goods and Supplies Merchant Wholesalers   |
| 42393 | Recyclable Material Merchant Wholesalers  |
| 42394 | Jewelry, Watch, Precious Stone, and Precious Metal Merchant Wholesalers                         |
| 42399 | Other Miscellaneous Durable Goods Merchant Wholesalers  |

**NAICS Industry Description**

|       |  |
|-------|--|
| 42411 | Printing and Writing Paper Merchant Wholesalers  |
| 42412 | Stationery and Office Supplies Merchant Wholesalers  |
| 42413 | Industrial and Personal Service Paper Merchant Wholesalers                                 |
| 42421 | Drugs and Druggists' Sundries Merchant Wholesalers   |
| 42431 | Piece Goods, Notions, and Other Dry Goods Merchant Wholesalers                             |
| 42432 | Men's and Boys' Clothing and Furnishings Merchant Wholesalers                              |
| 42433 | Women's, Children's, and Infants' Clothing and Accessories Merchant Wholesalers            |
| 42434 | Footwear Merchant Wholesalers  |
| 42441 | General Line Grocery Merchant Wholesalers  |
| 42442 | Packaged Frozen Food Merchant Wholesalers  |
| 42443 | Dairy Product (except Dried or Canned) Merchant Wholesalers                                |
| 42444 | Poultry and Poultry Product Merchant Wholesalers   |
| 42445 | Confectionery Merchant Wholesalers   |
| 42446 | Fish and Seafood Merchant Wholesalers  |
| 42447 | Meat and Meat Product Merchant Wholesalers   |
| 42448 | Fresh Fruit and Vegetable Merchant Wholesalers   |
| 42449 | Other Grocery and Related Products Merchant Wholesalers                                    |
| 42451 | Grain and Field Bean Merchant Wholesalers  |
| 42452 | Livestock Merchant Wholesalers   |
| 42459 | Other Farm Product Raw Material Merchant Wholesalers                                       |
| 42461 | Plastics Materials and Basic Forms and Shapes Merchant Wholesalers                         |
| 42469 | Other Chemical and Allied Products Merchant Wholesalers                                    |
| 42471 | Petroleum Bulk Stations and Terminals  |
| 42472 | Petroleum and Petroleum Products Merchant Wholesalers (except Bulk Stations and Terminals) |
| 42481 | Beer and Ale Merchant Wholesalers  |
| 42482 | Wine and Distilled Alcoholic Beverage Merchant Wholesalers                                 |
| 42491 | Farm Supplies Merchant Wholesalers   |
| 42492 | Book, Periodical, and Newspaper Merchant Wholesalers                                       |
| 42493 | Flower, Nursery Stock, and Florists' Supplies Merchant Wholesalers                         |
| 42494 | Tobacco and Tobacco Product Merchant Wholesalers   |
| 42495 | Paint, Varnish, and Supplies Merchant Wholesalers  |
| 42499 | Other Miscellaneous Nondurable Goods Merchant Wholesalers                                  |
| 42511 | Business to Business Electronic Markets  |
| 42512 | Wholesale Trade Agents and Brokers   |
| 48111 | Scheduled Air Transportation   |
| 48121 | Nonscheduled Air Transportation  |
| 48211 | Rail Transportation  |
| 48321 | Inland Water Transportation  |
| 48411 | General Freight Trucking, Local  |
| 48412 | General Freight Trucking, Long-Distance  |
| 48422 | Specialized Freight (except Used Goods) Trucking, Local                                    |
| 48423 | Specialized Freight (except Used Goods) Trucking, Long-Distance                            |

**NAICS Industry Description**

|       |   |
|-------|---|
| 48611 | Pipeline Transportation of Crude Oil                  |
| 48621 | Pipeline Transportation of Natural Gas                |
| 48691 | Pipeline Transportation of Refined Petroleum Products |
| 48699 | All Other Pipeline Transportation                     |
| 48811 | Airport Operations                                    |
| 48819 | Other Support Activities for Air Transportation       |
| 48821 | Support Activities for Rail Transportation            |
| 48839 | Other Support Activities for Water Transportation     |
| 48841 | Motor Vehicle Towing                                  |
| 48849 | Other Support Activities for Road Transportation      |
| 48851 | Freight Transportation Arrangement                    |
| 48899 | Other Support Activities for Transportation           |
| 49311 | General Warehousing and Storage                       |
| 49312 | Refrigerated Warehousing and Storage                  |
| 49313 | Farm Product Warehousing and Storage                  |
| 49319 | Other Warehousing and Storage                         |

**Automotive Industries****NAICS Industry Description**

|       |   |
|-------|---|
| 33611 | Automobile and Light Duty Motor Vehicle Manufacturing |
|-------|---|

**Manufacturing Industries****NAICS Industry Description**

|       |   |
|-------|---|
| 31111 | Animal Food Manufacturing                         |
| 31121 | Flour Milling and Malt Manufacturing              |
| 31122 | Starch and Vegetable Fats and Oils Manufacturing  |
| 31123 | Breakfast Cereal Manufacturing                    |
| 31131 | Sugar Manufacturing                               |
| 31134 | Nonchocolate Confectionery Manufacturing          |
| 31135 | Chocolate and Confectionery Manufacturing         |
| 31141 | Frozen Food Manufacturing                         |
| 31142 | Fruit and Vegetable Canning, Pickling, and Drying |
| 31151 | Dairy Product (except Frozen) Manufacturing       |
| 31152 | Ice Cream and Frozen Dessert Manufacturing        |
| 31161 | Animal Slaughtering and Processing                |
| 31171 | Seafood Product Preparation and Packaging         |
| 31181 | Bread and Bakery Product Manufacturing            |
| 31182 | Cookie, Cracker, and Pasta Manufacturing          |
| 31183 | Tortilla Manufacturing                            |
| 31191 | Snack Food Manufacturing                          |
| 31192 | Coffee and Tea Manufacturing                      |
| 31193 | Flavoring Syrup and Concentrate Manufacturing     |
| 31194 | Seasoning and Dressing Manufacturing              |

**NAICS Industry Description**

|       |   |
|-------|---|
| 31199 | All Other Food Manufacturing                                    |
| 31211 | Soft Drink and Ice Manufacturing                                |
| 31212 | Breweries   |
| 31213 | Wineries  |
| 31214 | Distilleries  |
| 31223 | Tobacco Manufacturing   |
| 31311 | Fiber, Yarn, and Thread Mills                                   |
| 31321 | Broadwoven Fabric Mills   |
| 31322 | Narrow Fabric Mills and Schifflli Machine Embroidery            |
| 31323 | Nonwoven Fabric Mills   |
| 31324 | Knit Fabric Mills   |
| 31331 | Textile and Fabric Finishing Mills                              |
| 31332 | Fabric Coating Mills  |
| 31411 | Carpet and Rug Mills  |
| 31412 | Curtain and Linen Mills   |
| 31491 | Textile Bag and Canvas Mills                                    |
| 31499 | All Other Textile Product Mills                                 |
| 31511 | Hosiery and Sock Mills  |
| 31519 | Other Apparel Knitting Mills                                    |
| 31521 | Cut and Sew Apparel Contractors                                 |
| 31522 | Men's and Boys' Cut and Sew Apparel Manufacturing               |
| 31524 | Women's, Girls', and Infants' Cut and Sew Apparel Manufacturing |
| 31528 | Other Cut and Sew Apparel Manufacturing                         |
| 31599 | Apparel Accessories and Other Apparel Manufacturing             |
| 31611 | Leather and Hide Tanning and Finishing                          |
| 31621 | Footwear Manufacturing  |
| 31699 | Other Leather and Allied Product Manufacturing                  |
| 32111 | Sawmills and Wood Preservation                                  |
| 32121 | Veneer, Plywood, and Engineered Wood Product Manufacturing      |
| 32191 | Millwork  |
| 32192 | Wood Container and Pallet Manufacturing                         |
| 32199 | All Other Wood Product Manufacturing                            |
| 32211 | Pulp Mills  |
| 32212 | Paper Mills   |
| 32213 | Paperboard Mills  |
| 32221 | Paperboard Container Manufacturing                              |
| 32222 | Paper Bag and Coated and Treated Paper Manufacturing            |
| 32223 | Stationery Product Manufacturing                                |
| 32229 | Other Converted Paper Product Manufacturing                     |
| 32311 | Printing  |
| 32312 | Support Activities for Printing                                 |
| 32411 | Petroleum Refineries  |
| 32412 | Asphalt Paving, Roofing, and Saturated Materials Manufacturing  |



**NAICS Industry Description**

|       |   |
|-------|---|
| 32419 | Other Petroleum and Coal Products Manufacturing                             |
| 32511 | Petrochemical Manufacturing   |
| 32512 | Industrial Gas Manufacturing  |
| 32513 | Synthetic Dye and Pigment Manufacturing                                     |
| 32518 | Other Basic Inorganic Chemical Manufacturing                                |
| 32519 | Other Basic Organic Chemical Manufacturing                                  |
| 32521 | Resin and Synthetic Rubber Manufacturing                                    |
| 32522 | Artificial and Synthetic Fibers and Filaments Manufacturing                 |
| 32531 | Fertilizer Manufacturing  |
| 32532 | Pesticide and Other Agricultural Chemical Manufacturing                     |
| 32541 | Pharmaceutical and Medicine Manufacturing                                   |
| 32551 | Paint and Coating Manufacturing   |
| 32552 | Adhesive Manufacturing  |
| 32561 | Soap and Cleaning Compound Manufacturing                                    |
| 32562 | Toilet Preparation Manufacturing  |
| 32591 | Printing Ink Manufacturing  |
| 32592 | Explosives Manufacturing  |
| 32599 | All Other Chemical Product and Preparation Manufacturing                    |
| 32611 | Plastics Packaging Materials and Unlaminated Film and Sheet Manufacturing   |
| 32612 | Plastics Pipe, Pipe Fitting, and Unlaminated Profile Shape Manufacturing    |
| 32613 | Laminated Plastics Plate, Sheet (except Packaging), and Shape Manufacturing |
| 32614 | Polystyrene Foam Product Manufacturing                                      |
| 32615 | Urethane and Other Foam Product (except Polystyrene) Manufacturing          |
| 32616 | Plastics Bottle Manufacturing   |
| 32619 | Other Plastics Product Manufacturing  |
| 32621 | Tire Manufacturing  |
| 32622 | Rubber and Plastics Hoses and Belting Manufacturing                         |
| 32629 | Other Rubber Product Manufacturing  |
| 32711 | Pottery, Ceramics, and Plumbing Fixture Manufacturing                       |
| 32712 | Clay Building Material and Refractories Manufacturing                       |
| 32721 | Glass and Glass Product Manufacturing                                       |
| 32731 | Cement Manufacturing  |
| 32732 | Ready-Mix Concrete Manufacturing  |
| 32733 | Concrete Pipe, Brick, and Block Manufacturing                               |
| 32739 | Other Concrete Product Manufacturing  |
| 32741 | Lime Manufacturing  |
| 32742 | Gypsum Product Manufacturing  |
| 32791 | Abrasive Product Manufacturing  |
| 32799 | All Other Nonmetallic Mineral Product Manufacturing                         |
| 33111 | Iron and Steel Mills and Ferroalloy Manufacturing                           |
| 33121 | Iron and Steel Pipe and Tube Manufacturing from Purchased Steel             |
| 33122 | Rolling and Drawing of Purchased Steel                                      |
| 33131 | Alumina and Aluminum Production and Processing                              |

**NAICS Industry Description**

|       |  |
|-------|--|
| 33141 | Nonferrous Metal (except Aluminum) Smelting and Refining                                     |
| 33142 | Copper Rolling, Drawing, Extruding, and Alloying   |
| 33149 | Nonferrous Metal (except Copper and Aluminum) Rolling, Drawing, Extruding, and Alloying      |
| 33151 | Ferrous Metal Foundries  |
| 33152 | Nonferrous Metal Foundries   |
| 33211 | Forging and Stamping   |
| 33221 | Cutlery and Handtool Manufacturing   |
| 33231 | Plate Work and Fabricated Structural Product Manufacturing                                   |
| 33232 | Ornamental and Architectural Metal Products Manufacturing                                    |
| 33241 | Power Boiler and Heat Exchanger Manufacturing  |
| 33242 | Metal Tank (Heavy Gauge) Manufacturing   |
| 33243 | Metal Can, Box, and Other Metal Container (Light Gauge) Manufacturing                        |
| 33251 | Hardware Manufacturing   |
| 33261 | Spring and Wire Product Manufacturing  |
| 33271 | Machine Shops  |
| 33272 | Turned Product and Screw, Nut, and Bolt Manufacturing  |
| 33281 | Coating, Engraving, Heat Treating, and Allied Activities                                     |
| 33291 | Metal Valve Manufacturing  |
| 33299 | All Other Fabricated Metal Product Manufacturing   |
| 33311 | Agricultural Implement Manufacturing   |
| 33312 | Construction Machinery Manufacturing   |
| 33313 | Mining and Oil and Gas Field Machinery Manufacturing   |
| 33324 | Industrial Machinery Manufacturing   |
| 33331 | Commercial and Service Industry Machinery Manufacturing                                      |
| 33341 | Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing |
| 33351 | Metalworking Machinery Manufacturing   |
| 33361 | Engine, Turbine, and Power Transmission Equipment Manufacturing                              |
| 33391 | Pump and Compressor Manufacturing  |
| 33392 | Material Handling Equipment Manufacturing  |
| 33399 | All Other General Purpose Machinery Manufacturing  |
| 33411 | Computer and Peripheral Equipment Manufacturing  |
| 33421 | Telephone Apparatus Manufacturing  |
| 33422 | Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing        |
| 33429 | Other Communications Equipment Manufacturing   |
| 33431 | Audio and Video Equipment Manufacturing  |
| 33441 | Semiconductor and Other Electronic Component Manufacturing                                   |
| 33451 | Navigational, Measuring, Electromedical, and Control Instruments Manufacturing               |
| 33461 | Manufacturing and Reproducing Magnetic and Optical Media                                     |
| 33511 | Electric Lamp Bulb and Part Manufacturing  |
| 33512 | Lighting Fixture Manufacturing   |
| 33521 | Small Electrical Appliance Manufacturing   |
| 33522 | Major Household Appliance Manufacturing  |

**NAICS Industry Description**

|       |  |
|-------|--|
| 33531 | Electrical Equipment Manufacturing   |
| 33591 | Battery Manufacturing  |
| 33592 | Communication and Energy Wire and Cable Manufacturing                          |
| 33593 | Wiring Device Manufacturing  |
| 33599 | All Other Electrical Equipment and Component Manufacturing                     |
| 33611 | Automobile and Light Duty Motor Vehicle Manufacturing                          |
| 33612 | Heavy Duty Truck Manufacturing   |
| 33621 | Motor Vehicle Body and Trailer Manufacturing                                   |
| 33631 | Motor Vehicle Gasoline Engine and Engine Parts Manufacturing                   |
| 33632 | Motor Vehicle Electrical and Electronic Equipment Manufacturing                |
| 33633 | Motor Vehicle Steering and Suspension Components (except Spring) Manufacturing |
| 33634 | Motor Vehicle Brake System Manufacturing                                       |
| 33635 | Motor Vehicle Transmission and Power Train Parts Manufacturing                 |
| 33636 | Motor Vehicle Seating and Interior Trim Manufacturing                          |
| 33637 | Motor Vehicle Metal Stamping   |
| 33639 | Other Motor Vehicle Parts Manufacturing  |
| 33641 | Aerospace Product and Parts Manufacturing                                      |
| 33651 | Railroad Rolling Stock Manufacturing   |
| 33661 | Ship and Boat Building   |
| 33699 | Other Transportation Equipment Manufacturing                                   |
| 33711 | Wood Kitchen Cabinet and Countertop Manufacturing                              |
| 33712 | Household and Institutional Furniture Manufacturing                            |
| 33721 | Office Furniture (including Fixtures) Manufacturing                            |
| 33791 | Mattress Manufacturing   |
| 33792 | Blind and Shade Manufacturing  |
| 33911 | Medical Equipment and Supplies Manufacturing                                   |
| 33991 | Jewelry and Silverware Manufacturing   |
| 33992 | Sporting and Athletic Goods Manufacturing                                      |
| 33993 | Doll, Toy, and Game Manufacturing  |
| 33994 | Office Supplies (except Paper) Manufacturing                                   |
| 33995 | Sign Manufacturing   |
| 33999 | All Other Miscellaneous Manufacturing  |

**Construction Industries****NAICS Industry Description**

|       |  |
|-------|--|
| 23611 | Residential Building Construction                                |
| 23621 | Industrial Building Construction                                 |
| 23622 | Commercial and Institutional Building Construction               |
| 23711 | Water and Sewer Line and Related Structures Construction         |
| 23712 | Oil and Gas Pipeline and Related Structures Construction         |
| 23713 | Power and Communication Line and Related Structures Construction |
| 23721 | Land Subdivision   |
| 23731 | Highway, Street, and Bridge Construction                         |

**NAICS Industry Description**

|       |  |
|-------|--|
| 23799 | Other Heavy and Civil Engineering Construction                   |
| 23811 | Poured Concrete Foundation and Structure Contractors             |
| 23812 | Structural Steel and Precast Concrete Contractors                |
| 23813 | Framing Contractors  |
| 23814 | Masonry Contractors  |
| 23815 | Glass and Glazing Contractors                                    |
| 23816 | Roofing Contractors  |
| 23817 | Siding Contractors   |
| 23819 | Other Foundation, Structure, and Building Exterior Contractors   |
| 23821 | Electrical Contractors and Other Wiring Installation Contractors |
| 23822 | Plumbing, Heating, and Air-Conditioning Contractors              |
| 23829 | Other Building Equipment Contractors                             |
| 23831 | Drywall and Insulation Contractors                               |
| 23832 | Painting and Wall Covering Contractors                           |
| 23833 | Flooring Contractors   |
| 23834 | Tile and Terrazzo Contractors                                    |
| 23835 | Finish Carpentry Contractors                                     |
| 23839 | Other Building Finishing Contractors                             |
| 23891 | Site Preparation Contractors                                     |
| 23899 | All Other Specialty Trade Contractors                            |

**Healthcare Industries****NAICS Industry Description**

|       |   |
|-------|---|
| 62111 | Offices of Physicians   |
| 62121 | Offices of Dentists   |
| 62131 | Offices of Chiropractors  |
| 62132 | Offices of Optometrists   |
| 62133 | Offices of Mental Health Practitioners (except Physicians)                |
| 62134 | Offices of Physical, Occupational and Speech Therapists, and Audiologists |
| 62139 | Offices of All Other Health Practitioners                                 |
| 62141 | Family Planning Centers   |
| 62142 | Outpatient Mental Health and Substance Abuse Centers                      |
| 62149 | Other Outpatient Care Centers   |
| 62151 | Medical and Diagnostic Laboratories                                       |
| 62161 | Home Health Care Services   |
| 62191 | Ambulance Services  |
| 62199 | All Other Ambulatory Health Care Services                                 |
| 62211 | General Medical and Surgical Hospitals                                    |
| 62221 | Psychiatric and Substance Abuse Hospitals                                 |
| 62231 | Specialty (except Psychiatric and Substance Abuse) Hospitals              |
| 62311 | Nursing Care Facilities (Skilled Nursing Facilities)                      |
| 62321 | Residential Intellectual and Developmental Disability Facilities          |
| 62322 | Residential Mental Health and Substance Abuse Facilities                  |

**NAICS Industry Description**

|       |   |
|-------|---|
| 62331 | Continuing Care Retirement Communities and Assisted Living Facilities for the Elderly |
| 62399 | Other Residential Care Facilities   |
| 62411 | Child and Youth Services  |
| 62412 | Services for the Elderly and Persons with Disabilities                                |
| 62419 | Other Individual and Family Services  |
| 62421 | Community Food Services   |
| 62422 | Community Housing Services  |
| 62423 | Emergency and Other Relief Services   |
| 62431 | Vocational Rehabilitation Services  |
| 62441 | Child Day Care Services   |

**Education Industries****NAICS Industry Description**

|       |  |
|-------|--|
| 61111 | Elementary and Secondary Schools                 |
| 61121 | Junior Colleges                                  |
| 61131 | Colleges, Universities, and Professional Schools |
| 61141 | Business and Secretarial Schools                 |
| 61142 | Computer Training                                |
| 61143 | Professional and Management Development Training |
| 61151 | Technical and Trade Schools                      |
| 61161 | Fine Arts Schools                                |
| 61162 | Sports and Recreation Instruction                |
| 61163 | Language Schools                                 |
| 61169 | All Other Schools and Instruction                |
| 61171 | Educational Support Services                     |

**Creative Industries****NAICS Industry Description**

|       |   |
|-------|---|
| 23622 | Commercial and Institutional Building Construction                    |
| 51211 | Motion Picture and Video Production                                   |
| 51212 | Motion Picture and Video Distribution                                 |
| 51213 | Motion Picture and Video Exhibition                                   |
| 51219 | Postproduction Services and Other Motion Picture and Video Industries |
| 51223 | Music Publishers  |
| 51224 | Sound Recording Studios   |
| 51225 | Record Production and Distribution                                    |
| 51229 | Other Sound Recording Industries                                      |
| 54131 | Architectural Services  |
| 54132 | Landscape Architectural Services                                      |
| 54133 | Engineering Services  |
| 54134 | Drafting Services   |
| 54141 | Interior Design Services  |
| 54142 | Industrial Design Services  |

**NAICS Industry Description**

|       |   |
|-------|---|
| 54143 | Graphic Design Services   |
| 54149 | Other Specialized Design Services   |
| 54181 | Advertising Agencies  |
| 54182 | Public Relations Agencies   |
| 54183 | Media Buying Agencies   |
| 54184 | Media Representatives   |
| 54185 | Outdoor Advertising   |
| 54186 | Direct Mail Advertising   |
| 54187 | Advertising Material Distribution Services  |
| 54189 | Other Services Related to Advertising   |
| 54192 | Photographic Services   |
| 71111 | Theater Companies and Dinner Theaters   |
| 71112 | Dance Companies   |
| 71113 | Musical Groups and Artists  |
| 71119 | Other Performing Arts Companies   |
| 71131 | Promoters of Performing Arts, Sports, and Similar Events with Facilities          |
| 71132 | Promoters of Performing Arts, Sports, and Similar Events without Facilities       |
| 71141 | Agents and Managers for Artists, Athletes, Entertainers, and Other Public Figures |
| 71151 | Independent Artists, Writers, and Performers                                      |
| 71211 | Museums   |
| 71212 | Historical Sites  |

## Target Sector Staffing Patterns

**Table 13: Top Staffed Aerospace Occupations in 2021**

| SOC     | Description  | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education     | Work Experience Required | Typical On-The-Job Training       |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 51-4041 | Machinists   | 174                               | 173                               | -1                   | 0%                     | 4.1%                                     | \$18.91                | High school diploma or equivalent | None                     | Long-term on-the-job training     |
| 11-1021 | General and Operations Managers  | 173                               | 185                               | 12                   | 7%                     | 4.1%                                     | \$36.36                | Bachelor's degree                 | 5 years or more          | None                              |
| 51-4121 | Welders, Cutters, Solderers, and Brazers   | 157                               | 154                               | -3                   | -2%                    | 3.7%                                     | \$22.08                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |
| 25-1099 | Postsecondary Teachers   | 115                               | 152                               | 37                   | 32%                    | 2.7%                                     | \$31.89                | Doctoral or professional degree   | None                     | None                              |
| 53-2012 | Commercial Pilots  | 105                               | 118                               | 13                   | 13%                    | 2.5%                                     | \$48.24                | 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 | 94                                | 98                                | 4                    | 4%                     | 2.2%                                     | \$17.43                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |
| 51-9161 | Computer Numerically Controlled Tool Operators   | 93                                | 90                                | -3                   | -4%                    | 2.2%                                     | \$17.74                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |

| SOC     | Description   | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education     | Work Experience Required | Typical On-The-Job Training    |
|---------|---|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|--------------------------------|
| 43-6014 | Secretaries and Administrative Assistants, Except Legal, Medical, and Executive | 91                                | 88                                | -2                   | -3%                    | 2.2%                                     | \$14.32                | High school diploma or equivalent | None                     | Short-term on-the-job training |
| 49-9041 | Industrial Machinery Mechanics  | 87                                | 87                                | 0                    | 0%                     | 2.1%                                     | \$25.21                | High school diploma or equivalent | None                     | Long-term on-the-job training  |
| 15-1252 | Software Developers   | 86                                | 128                               | 42                   | 49%                    | 2.0%                                     | \$37.69                | Bachelor's degree                 | None                     | None                           |

Source: *Lightcast- economicmodeling.com- 2022.3*



Table 14: Top Growing Aerospace Occupations by 2026

| SOC     | Description   | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education     | Work Experience Required | Typical On-The-Job Training       |
|---------|---|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 15-1252 | Software Developers   | 86                                | 128                               | 42                   | 49%                    | 2.0%                                     | \$37.69                | Bachelor's degree                 | None                     | None                              |
| 25-1099 | Postsecondary Teachers  | 115                               | 152                               | 37                   | 32%                    | 2.7%                                     | \$31.89                | Doctoral or professional degree   | None                     | None                              |
| 15-1232 | Computer User Support Specialists                                 | 77                                | 91                                | 14                   | 18%                    | 1.8%                                     | \$22.06                | Some college, no degree           | None                     | None                              |
| 53-2012 | Commercial Pilots   | 105                               | 118                               | 13                   | 13%                    | 2.5%                                     | \$48.24                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |
| 11-1021 | General and Operations Managers                                   | 173                               | 185                               | 12                   | 7%                     | 4.1%                                     | \$36.36                | Bachelor's degree                 | 5 years or more          | None                              |
| 15-1211 | Computer Systems Analysts   | 37                                | 47                                | 10                   | 29%                    | 0.9%                                     | \$40.79                | Bachelor's degree                 | None                     | None                              |
| 11-3021 | Computer and Information Systems Managers                         | 40                                | 50                                | 10                   | 25%                    | 1.0%                                     | \$47.29                | Bachelor's degree                 | 5 years or more          | None                              |
| 17-2112 | Industrial Engineers  | 36                                | 45                                | 9                    | 25%                    | 0.8%                                     | \$38.12                | Bachelor's degree                 | None                     | None                              |
| 41-3091 | Sales Representatives of Services, Except Advertising, Insurance, | 61                                | 69                                | 8                    | 13%                    | 1.5%                                     | \$22.33                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |

| SOC     | Description                          | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education | Work Experience Required | Typical On-The-Job Training |
|---------|--------------------------------------|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-------------------------------|--------------------------|-----------------------------|
|         | Financial Services, and Travel       |                                   |                                   |                      |                        |  |                        |                               |                          |                             |
| 13-1151 | Training and Development Specialists | 23                                | 30                                | 8                    | 34%                    | 0.5%                                     | \$28.96                | Bachelor's degree             | Less than 5 years        | None                        |

Source: Lightcast- [economicmodeling.com](http://economicmodeling.com)- 2022.3

**Table 15: Top Staffed Agribusiness & Bioscience Occupations in 2021**

| SOC     | Description   | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education     | Work Experience Required | Typical On-The-Job Training       |
|---------|---|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 51-3023 | Slaughterers and Meat Packers                           | 1,403                             | 1,563                             | 160                  | 11%                    | 9.7%                                     | \$13.53                | No formal educational credential  | None                     | Short-term on-the-job training    |
| 45-2092 | Farmworkers and Laborers, Crop, Nursery, and Greenhouse | 943                               | 852                               | -91                  | -10%                   | 6.5%                                     | \$11.96                | No formal educational credential  | None                     | Short-term on-the-job training    |
| 53-7062 | Laborers and Freight, Stock, and Material Movers, Hand  | 854                               | 932                               | 78                   | 9%                     | 5.9%                                     | \$14.14                | No formal educational credential  | None                     | Short-term on-the-job training    |
| 11-9013 | Farmers, Ranchers, and Other Agricultural Managers      | 756                               | 643                               | -114                 | -15%                   | 5.2%                                     | \$18.39                | High school diploma or equivalent | 5 years or more          | None                              |
| 51-9111 | Packaging and Filling Machine Operators and Tenders     | 666                               | 732                               | 66                   | 10%                    | 4.6%                                     | \$17.45                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |
| 45-2093 | Farmworkers, Farm, Ranch, and Aquacultural Animals      | 595                               | 537                               | -58                  | -10%                   | 4.1%                                     | \$12.24                | No formal educational credential  | None                     | Short-term on-the-job training    |
| 51-1011 | First-Line Supervisors of Production and                | 424                               | 468                               | 45                   | 11%                    | 2.9%                                     | \$29.94                | High school diploma or equivalent | Less than 5 years        | None                              |

| SOC     | Description                             | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education     | Work Experience Required | Typical On-The-Job Training       |
|---------|---|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
|         | Operating Workers                       |                                   |                                   |                      |                        |  |                        |                                   |                          |                                   |
| 45-2091 | Agricultural Equipment Operators        | 342                               | 347                               | 5                    | 1%                     | 2.4%                                     | \$14.29                | No formal educational credential  | None                     | Moderate-term on-the-job training |
| 53-3032 | Heavy and Tractor-Trailer Truck Drivers | 326                               | 345                               | 18                   | 6%                     | 2.2%                                     | \$21.98                | Postsecondary nondegree award     | None                     | Short-term on-the-job training    |
| 49-9071 | Maintenance and Repair Workers, General | 314                               | 343                               | 29                   | 9%                     | 2.2%                                     | \$15.09                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |

Source: Lightcast- [economicmodeling.com](https://economicmodeling.com)- 2022.3

**Table 16: Top Growing Agribusiness & Bioscience Occupations by 2026**

| SOC     | Description  | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education     | Work Experience Required | Typical On-The-Job Training       |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 51-3023 | Slaughterers and Meat Packers                              | 1,403                             | 1,563                             | 160                  | 11%                    | 9.7%                                     | \$13.53                | No formal educational credential  | None                     | Short-term on-the-job training    |
| 51-3022 | Meat, Poultry, and Fish Cutters and Trimmers               | 116                               | 200                               | 83                   | 72%                    | 0.8%                                     | \$11.54                | No formal educational credential  | None                     | Short-term on-the-job training    |
| 53-7062 | Laborers and Freight, Stock, and Material Movers, Hand     | 854                               | 932                               | 78                   | 9%                     | 5.9%                                     | \$14.14                | No formal educational credential  | None                     | Short-term on-the-job training    |
| 51-9111 | Packaging and Filling Machine Operators and Tenders        | 666                               | 732                               | 66                   | 10%                    | 4.6%                                     | \$17.45                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |
| 51-1011 | First-Line Supervisors of Production and Operating Workers | 424                               | 468                               | 45                   | 11%                    | 2.9%                                     | \$29.94                | High school diploma or equivalent | Less than 5 years        | None                              |
| 51-3092 | Food Batchmakers   | 261                               | 298                               | 37                   | 14%                    | 1.8%                                     | \$13.88                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |
| 53-7051 | Industrial Truck and Tractor Operators                     | 212                               | 247                               | 34                   | 16%                    | 1.5%                                     | \$17.76                | No formal educational credential  | None                     | Short-term on-the-job training    |

| SOC     | Description                             | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education     | Work Experience Required | Typical On-The-Job Training       |
|---------|---|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 49-9071 | Maintenance and Repair Workers, General | 314                               | 343                               | 29                   | 9%                     | 2.2%                                     | \$15.09                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |
| 49-9041 | Industrial Machinery Mechanics          | 120                               | 148                               | 28                   | 23%                    | 0.8%                                     | \$25.21                | High school diploma or equivalent | None                     | Long-term on-the-job training     |
| 53-7064 | Packers and Packagers, Hand             | 158                               | 181                               | 22                   | 14%                    | 1.1%                                     | \$12.68                | No formal educational credential  | None                     | Short-term on-the-job training    |

Source: Lightcast- [economicmodeling.com](https://economicmodeling.com/)- 2022.3

Table 17: Top Staffed Energy Occupations in 2021

| SOC     | Description  | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education     | Work Experience Required | Typical On-The-Job Training       |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 47-5071 | Roustabouts, Oil and Gas   | 946                               | 796                               | -150                 | -16%                   | 8.3%                                     | \$18.18                | No formal educational credential  | None                     | Moderate-term on-the-job training |
| 47-5013 | Service Unit Operators, Oil and Gas                                  | 541                               | 437                               | -104                 | -19%                   | 4.8%                                     | \$22.95                | No formal educational credential  | None                     | Moderate-term on-the-job training |
| 47-1011 | First-Line Supervisors of Construction Trades and Extraction Workers | 456                               | 423                               | -34                  | -7%                    | 4.0%                                     | \$29.13                | High school diploma or equivalent | 5 years or more          | None                              |
| 51-8093 | Petroleum Pump System Operators, Refinery Operators, and Gaugers     | 410                               | 428                               | 18                   | 4%                     | 3.6%                                     | \$35.04                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |
| 53-3032 | Heavy and Tractor-Trailer Truck Drivers                              | 396                               | 364                               | -32                  | -8%                    | 3.5%                                     | \$21.98                | Postsecondary nondegree award     | None                     | Short-term on-the-job training    |
| 47-2073 | Operating Engineers and Other Construction Equipment Operators       | 374                               | 339                               | -34                  | -9%                    | 3.3%                                     | \$21.27                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |

| SOC     | Description                                    | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education     | Work Experience Required | Typical On-The-Job Training       |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 47-5012 | Rotary Drill Operators, Oil and Gas            | 359                               | 301                               | -58                  | -16%                   | 3.2%                                     | \$21.60                | No formal educational credential  | None                     | Moderate-term on-the-job training |
| 51-4121 | Welders, Cutters, Solderers, and Brazers       | 358                               | 332                               | -27                  | -7%                    | 3.2%                                     | \$22.08                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |
| 49-9051 | Electrical Power-Line Installers and Repairers | 348                               | 394                               | 47                   | 13%                    | 3.1%                                     | \$30.40                | High school diploma or equivalent | None                     | Long-term on-the-job training     |
| 11-1021 | General and Operations Managers                | 317                               | 308                               | -9                   | -3%                    | 2.8%                                     | \$36.36                | Bachelor's degree                 | 5 years or more          | None                              |

Source: Lightcast- [economicmodeling.com](https://economicmodeling.com)- 2022.3



Table 18: Top Growing Energy Occupations by 2026

| SOC     | Description  | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education     | Work Experience Required | Typical On-The-Job Training       |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 49-9081 | Wind Turbine Service Technicians                                 | 154                               | 225                               | 71                   | 46%                    | 1.4%                                     | \$25.41                | Postsecondary nondegree award     | None                     | Long-term on-the-job training     |
| 49-9051 | Electrical Power-Line Installers and Repairers                   | 348                               | 394                               | 47                   | 13%                    | 3.1%                                     | \$30.40                | High school diploma or equivalent | None                     | Long-term on-the-job training     |
| 49-9052 | Telecommunications Line Installers and Repairers                 | 71                                | 92                                | 22                   | 31%                    | 0.6%                                     | \$25.62                | High school diploma or equivalent | None                     | Long-term on-the-job training     |
| 49-1011 | First-Line Supervisors of Mechanics, Installers, and Repairers   | 188                               | 207                               | 19                   | 10%                    | 1.7%                                     | \$34.83                | High school diploma or equivalent | Less than 5 years        | None                              |
| 51-8093 | Petroleum Pump System Operators, Refinery Operators, and Gaugers | 410                               | 428                               | 18                   | 4%                     | 3.6%                                     | \$35.04                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |
| 17-2071 | Electrical Engineers   | 71                                | 82                                | 11                   | 15%                    | 0.6%                                     | \$47.18                | Bachelor's degree                 | None                     | None                              |
| 11-9021 | Construction Managers  | 53                                | 63                                | 10                   | 18%                    | 0.5%                                     | \$44.46                | Bachelor's degree                 | None                     | Moderate-term on-the-job training |
| 47-2111 | Electricians   | 95                                | 103                               | 8                    | 9%                     | 0.8%                                     | \$23.03                | High school diploma or equivalent | None                     | Apprenticeship                    |
| 47-2061 | Construction Laborers  | 262                               | 266                               | 5                    | 2%                     | 2.3%                                     | \$15.87                | No formal educational credential  | None                     | Short-term on-the-job training    |

| SOC     | Description         | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education | Work Experience Required | Typical On-The-Job Training |
|---------|---------------------|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-------------------------------|--------------------------|-----------------------------|
| 11-9199 | Managers, All Other | 17                                | 22                                | 4                    | 26%                    | 0.2%                                     | \$31.89                | Bachelor's degree             | Less than 5 years        | None                        |

Source: *Lightcast- economicmodeling.com- 2022.3*

**Table 19: Top Staffed Information and Financial Services Occupations in 2021**

| SOC     | Description   | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education     | Work Experience Required | Typical On-The-Job Training       |
|---------|---|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 43-3071 | Tellers   | 877                               | 716                               | -161                 | -18%                   | 11.7%                                    | \$13.83                | High school diploma or equivalent | None                     | Short-term on-the-job training    |
| 13-2072 | Loan Officers   | 464                               | 413                               | -51                  | -11%                   | 6.2%                                     | \$29.69                | Bachelor's degree                 | Less than 5 years        | Moderate-term on-the-job training |
| 43-4131 | Loan Interviewers and Clerks  | 406                               | 353                               | -53                  | -13%                   | 5.4%                                     | \$17.78                | High school diploma or equivalent | None                     | Short-term on-the-job training    |
| 13-2011 | Accountants and Auditors  | 396                               | 406                               | 10                   | 2%                     | 5.3%                                     | \$31.33                | Bachelor's degree                 | None                     | None                              |
| 43-4051 | Customer Service Representatives                                    | 323                               | 318                               | -5                   | -2%                    | 4.3%                                     | \$14.04                | High school diploma or equivalent | None                     | Short-term on-the-job training    |
| 43-3031 | Bookkeeping, Accounting, and Auditing Clerks                        | 305                               | 294                               | -10                  | -3%                    | 4.1%                                     | \$17.72                | Some college, no degree           | None                     | Moderate-term on-the-job training |
| 43-1011 | First-Line Supervisors of Office and Administrative Support Workers | 271                               | 252                               | -19                  | -7%                    | 3.6%                                     | \$22.69                | High school diploma or equivalent | Less than 5 years        | None                              |
| 11-1021 | General and Operations Managers                                     | 243                               | 254                               | 11                   | 5%                     | 3.2%                                     | \$36.36                | Bachelor's degree                 | 5 years or more          | None                              |
| 11-3031 | Financial Managers  | 189                               | 200                               | 11                   | 6%                     | 2.5%                                     | \$47.91                | Bachelor's degree                 | 5 years or more          | None                              |

| SOC     | Description  | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education     | Work Experience Required | Typical On-The-Job Training       |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 41-3091 | Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel | 171                               | 186                               | 15                   | 9%                     | 2.3%                                     | \$22.33                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |

Source: Lightcast- [economicmodeling.com](http://economicmodeling.com)- 2022.3

**Table 20: Top Growing Information and Financial Services Occupations by 2026**

| SOC     | Description  | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education     | Work Experience Required | Typical On-The-Job Training       |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 15-1252 | Software Developers  | 120                               | 165                               | 45                   | 37%                    | 1.6%                                     | \$37.69                | Bachelor's degree                 | None                     | None                              |
| 49-2022 | Telecommunications Equipment Installers and Repairers, Except Line Installers                    | 130                               | 147                               | 17                   | 13%                    | 1.7%                                     | \$23.76                | Postsecondary nondegree award     | None                     | Moderate-term on-the-job training |
| 41-3091 | Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel | 171                               | 186                               | 15                   | 9%                     | 2.3%                                     | \$22.33                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |
| 15-1232 | Computer User Support Specialists  | 142                               | 156                               | 14                   | 10%                    | 1.9%                                     | \$22.06                | Some college, no degree           | None                     | None                              |
| 13-1161 | Market Research Analysts and Marketing Specialists   | 95                                | 106                               | 11                   | 12%                    | 1.3%                                     | \$22.26                | Bachelor's degree                 | None                     | None                              |
| 11-3031 | Financial Managers   | 189                               | 200                               | 11                   | 6%                     | 2.5%                                     | \$47.91                | Bachelor's degree                 | 5 years or more          | None                              |
| 11-1021 | General and Operations Managers  | 243                               | 254                               | 11                   | 5%                     | 3.2%                                     | \$36.36                | Bachelor's degree                 | 5 years or more          | None                              |
| 15-1211 | Computer Systems Analysts  | 62                                | 72                                | 10                   | 16%                    | 0.8%                                     | \$40.79                | Bachelor's degree                 | None                     | None                              |
| 13-2011 | Accountants and Auditors   | 396                               | 406                               | 10                   | 2%                     | 5.3%                                     | \$31.33                | Bachelor's degree                 | None                     | None                              |

| SOC     | Description                               | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education | Work Experience Required | Typical On-The-Job Training |
|---------|---|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-------------------------------|--------------------------|-----------------------------|
| 11-3021 | Computer and Information Systems Managers | 73                                | 82                                | 9                    | 13%                    | 1.0%                                     | \$47.29                | Bachelor's degree             | 5 years or more          | None                        |

Source: Lightcast- [economicmodeling.com](https://economicmodeling.com)- 2022.3

**Table 21: Top Staffed Manufacturing Occupations in 2021**

| SOC     | Description  | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education     | Work Experience Required | Typical On-The-Job Training       |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 51-3023 | Slaughterers and Meat Packers                              | 1,403                             | 1,563                             | 160                  | 11%                    | 9.9%                                     | \$13.53                | No formal educational credential  | None                     | Short-term on-the-job training    |
| 51-4121 | Welders, Cutters, Solderers, and Brazers                   | 787                               | 814                               | 28                   | 4%                     | 5.6%                                     | \$22.08                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |
| 53-7062 | Laborers and Freight, Stock, and Material Movers, Hand     | 754                               | 841                               | 87                   | 12%                    | 5.3%                                     | \$14.14                | No formal educational credential  | None                     | Short-term on-the-job training    |
| 51-1011 | First-Line Supervisors of Production and Operating Workers | 752                               | 814                               | 62                   | 8%                     | 5.3%                                     | \$29.94                | High school diploma or equivalent | Less than 5 years        | None                              |
| 51-9111 | Packaging and Filling Machine Operators and Tenders        | 678                               | 752                               | 74                   | 11%                    | 4.8%                                     | \$17.45                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |
| 51-2098 | Miscellaneous Assemblers and Fabricators                   | 436                               | 431                               | -5                   | -1%                    | 3.1%                                     | \$14.20                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |
| 51-9061 | Inspectors, Testers, Sorters, Samplers, and Weighers       | 365                               | 383                               | 18                   | 5%                     | 2.6%                                     | \$19.65                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |
| 51-4041 | Machinists   | 355                               | 358                               | 3                    | 1%                     | 2.5%                                     | \$18.91                | High school diploma or equivalent | None                     | Long-term on-the-job training     |

| SOC     | Description  | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education     | Work Experience Required | Typical On-The-Job Training       |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 49-9071 | Maintenance and Repair Workers, General  | 343                               | 378                               | 35                   | 10%                    | 2.4%                                     | \$15.09                | 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 | 276                               | 272                               | -5                   | -2%                    | 2.0%                                     | \$17.43                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |

Source: Lightcast- [economicmodeling.com](http://economicmodeling.com)- 2022.3



**Table 22: Top Growing Manufacturing Occupations by 2026**

| SOC     | Description  | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education     | Work Experience Required | Typical On-The-Job Training       |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 51-3023 | Slaughterers and Meat Packers                              | 1,403                             | 1,563                             | 160                  | 11%                    | 9.9%                                     | \$13.53                | No formal educational credential  | None                     | Short-term on-the-job training    |
| 53-7062 | Laborers and Freight, Stock, and Material Movers, Hand     | 754                               | 841                               | 87                   | 12%                    | 5.3%                                     | \$14.14                | No formal educational credential  | None                     | Short-term on-the-job training    |
| 51-3022 | Meat, Poultry, and Fish Cutters and Trimmers               | 115                               | 198                               | 84                   | 73%                    | 0.8%                                     | \$11.54                | No formal educational credential  | None                     | Short-term on-the-job training    |
| 51-9111 | Packaging and Filling Machine Operators and Tenders        | 678                               | 752                               | 74                   | 11%                    | 4.8%                                     | \$17.45                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |
| 51-1011 | First-Line Supervisors of Production and Operating Workers | 752                               | 814                               | 62                   | 8%                     | 5.3%                                     | \$29.94                | High school diploma or equivalent | Less than 5 years        | None                              |
| 49-9041 | Industrial Machinery Mechanics                             | 196                               | 239                               | 42                   | 21%                    | 1.4%                                     | \$25.21                | High school diploma or equivalent | None                     | Long-term on-the-job training     |
| 51-3092 | Food Batchmakers   | 258                               | 295                               | 37                   | 14%                    | 1.8%                                     | \$13.88                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |
| 49-9071 | Maintenance and Repair Workers, General                    | 343                               | 378                               | 35                   | 10%                    | 2.4%                                     | \$15.09                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |

| SOC     | Description                              | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education     | Work Experience Required | Typical On-The-Job Training       |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 53-7051 | Industrial Truck and Tractor Operators   | 210                               | 242                               | 32                   | 15%                    | 1.5%                                     | \$17.76                | No formal educational credential  | None                     | Short-term on-the-job training    |
| 51-4121 | Welders, Cutters, Solderers, and Brazers | 787                               | 814                               | 28                   | 4%                     | 5.6%                                     | \$22.08                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |

Source: Lightcast- [economicmodeling.com](http://economicmodeling.com)- 2022.3

**Table 23: Top Staffed Transportation and Logistics Occupations in 2021**

| SOC     | Description  | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education     | Work Experience Required | Typical On-The-Job Training       |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 53-3032 | Heavy and Tractor-Trailer Truck Drivers  | 1,830                             | 1,764                             | -66                  | -4%                    | 19.4%                                    | \$21.98                | Postsecondary nondegree award     | None                     | Short-term on-the-job training    |
| 53-7062 | Laborers and Freight, Stock, and Material Movers, Hand                                       | 627                               | 626                               | -2                   | 0%                     | 6.7%                                     | \$14.14                | No formal educational credential  | None                     | Short-term on-the-job training    |
| 41-4012 | Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products | 500                               | 527                               | 27                   | 5%                     | 5.3%                                     | \$22.22                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |
| 11-1021 | General and Operations Managers  | 349                               | 355                               | 6                    | 2%                     | 3.7%                                     | \$36.36                | Bachelor's degree                 | 5 years or more          | None                              |
| 41-4011 | Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products        | 270                               | 276                               | 6                    | 2%                     | 2.9%                                     | \$26.88                | Bachelor's degree                 | None                     | Moderate-term on-the-job training |
| 51-8093 | Petroleum Pump System Operators, Refinery Operators, and Gaugers                             | 263                               | 296                               | 33                   | 12%                    | 2.8%                                     | \$35.04                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |

| SOC     | Description                                  | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education     | Work Experience Required | Typical On-The-Job Training       |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 53-7065 | Stockers and Order Fillers                   | 254                               | 263                               | 8                    | 3%                     | 2.7%                                     | \$12.30                | High school diploma or equivalent | None                     | Short-term on-the-job training    |
| 43-3031 | Bookkeeping, Accounting, and Auditing Clerks | 229                               | 219                               | -10                  | -5%                    | 2.4%                                     | \$17.72                | Some college, no degree           | None                     | Moderate-term on-the-job training |
| 53-3033 | Light Truck Drivers                          | 218                               | 219                               | 1                    | 0%                     | 2.3%                                     | \$15.45                | High school diploma or equivalent | None                     | Short-term on-the-job training    |
| 43-9061 | Office Clerks, General                       | 218                               | 210                               | -8                   | -4%                    | 2.3%                                     | \$13.88                | High school diploma or equivalent | None                     | Short-term on-the-job training    |

Source: Lightcast- [economicmodeling.com](https://economicmodeling.com)- 2022.3

**Table 24: Top Growing Transportation and Logistics Occupations by 2026**

| SOC     | Description  | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education     | Work Experience Required | Typical On-The-Job Training       |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 51-8093 | Petroleum Pump System Operators, Refinery Operators, and Gaugers                             | 263                               | 296                               | 33                   | 12%                    | 2.8%                                     | \$35.04                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |
| 41-4012 | Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products | 500                               | 527                               | 27                   | 5%                     | 5.3%                                     | \$22.22                | High school diploma or equivalent | None                     | Moderate-term on-the-job training |
| 51-8092 | Gas Plant Operators  | 108                               | 120                               | 12                   | 11%                    | 1.2%                                     | \$34.82                | High school diploma or equivalent | None                     | Long-term on-the-job training     |
| 53-7065 | Stockers and Order Fillers   | 254                               | 263                               | 8                    | 3%                     | 2.7%                                     | \$12.30                | High school diploma or equivalent | None                     | Short-term on-the-job training    |
| 13-1161 | Market Research Analysts and Marketing Specialists   | 39                                | 46                                | 7                    | 17%                    | 0.4%                                     | \$22.26                | Bachelor's degree                 | None                     | None                              |
| 49-3041 | Farm Equipment Mechanics and Service Technicians   | 114                               | 121                               | 7                    | 6%                     | 1.2%                                     | \$22.15                | High school diploma or equivalent | None                     | Long-term on-the-job training     |
| 41-4011 | Sales Representatives, Wholesale and   | 270                               | 276                               | 6                    | 2%                     | 2.9%                                     | \$26.88                | Bachelor's degree                 | None                     | Moderate-term on-                 |

| SOC     | Description                                      | Employed in Industry Group (2021) | Employed in Industry Group (2026) | Change (2021 - 2026) | % Change (2021 - 2026) | % of Total Jobs in Industry Group (2021) | Median Hourly Earnings | Typical Entry Level Education     | Work Experience Required | Typical On-The-Job Training   |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-------------------------------|
|         | Manufacturing, Technical and Scientific Products |                                   |                                   |                      |                        |  |                        |                                   |                          | the-job training              |
| 49-9041 | Industrial Machinery Mechanics                   | 88                                | 94                                | 6                    | 7%                     | 0.9%                                     | \$25.21                | High school diploma or equivalent | None                     | Long-term on-the-job training |
| 11-1021 | General and Operations Managers                  | 349                               | 355                               | 6                    | 2%                     | 3.7%                                     | \$36.36                | Bachelor's degree                 | 5 years or more          | None                          |
| 15-1252 | Software Developers                              | 14                                | 20                                | 6                    | 43%                    | 0.1%                                     | \$37.69                | Bachelor's degree                 | None                     | None                          |

Source: Lightcast- [economicmodeling.com](https://economicmodeling.com)- 2022.3