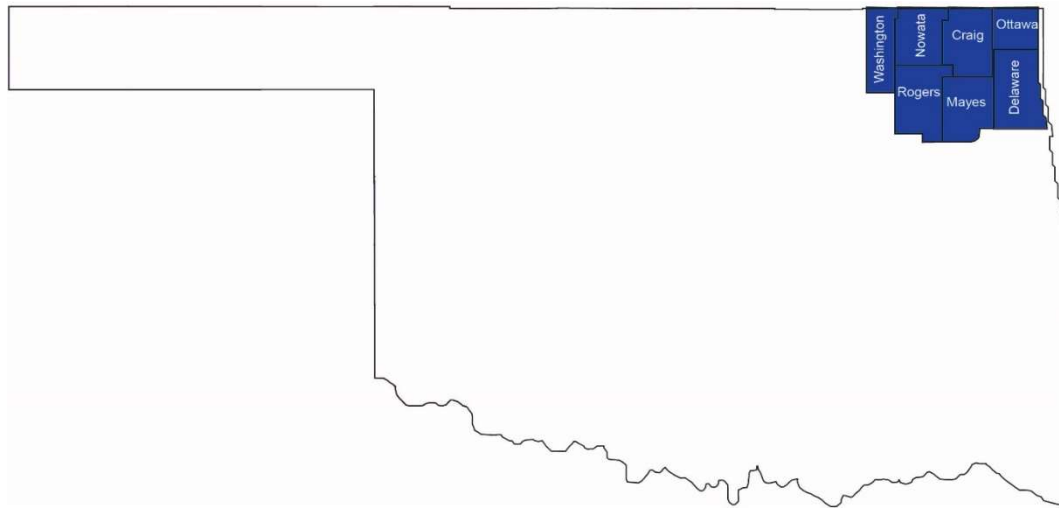


NORTHEAST OKLAHOMA WORKFORCE DEVELOPMENT AREA



2022 LOCAL BRIEFING



**OKLAHOMA
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Introduction

The Northeast Oklahoma Workforce Development Area (WFDA) is composed of 7 Oklahoma counties: Craig, Delaware, Mayes, Nowata, Ottawa, Rogers, and Washington. According to the U.S. Census Bureau, this combined region of Oklahoma covers 4,282 square miles and is home to over 285,000 residents. The following reviews the population, education, labor force, top industries by total jobs, and target and complementary sectors in the Northeast WFDA.

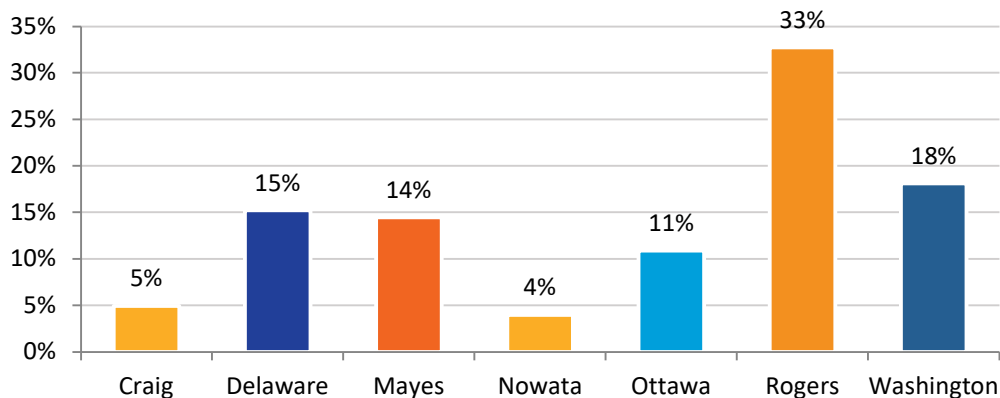
Population

Between 2016 and 2021, the Northeast WFDA grew by approximately 1%, from 282,647 to 285,409 people, or around 2,762 additional people. By 2026, the area is expected to grow by an additional 1.4% to 289,474 people. The following shows population figures and analyses by county, age, race, and ethnicity in the Northeast WFDA.

Population by County

Figure 1 shows the Northeast WFDA population breakdown by county. Rogers County had the largest population, representing 33% of the population in the Northeast WFDA. Washington County had the second largest population at 18%. Nowata County had the smallest population, representing 4% of the population in the Northeast WFDA.

Figure 1: Population by County



Source: *Lightcast- economicmodeling.com- 2022.3*

Table 1 provides the population change from 2016 to 2021. During this period, four out of seven counties increased in population. Rogers County added the largest number of people at 2,844. Delaware County added the second largest amount of people at 1,285. Alternatively, Ottawa County experienced the largest decrease in population at 791 fewer people.

Table 1: Population by County

| County | 2016 Population | 2021 Population | Total Change |
|--------------|-----------------|-----------------|--------------|
| Craig | 14,467 | 14,099 | -368 |
| Delaware | 41,967 | 43,252 | 1,285 |
| Mayes | 41,031 | 41,206 | 175 |
| Nowata | 10,405 | 9,980 | -425 |
| Ottawa | 31,617 | 30,826 | -791 |
| Rogers | 91,061 | 93,905 | 2,844 |
| Washington | 52,099 | 52,141 | 42 |
| Total | 282,647 | 285,409 | 2,762 |

Source: Lightcast- economicmodeling.com- 2022.3

Table 2 shows the projected population change from 2021 to 2026. During this period, four out of seven counties are projected to grow in population. In particular, Rogers County is projected to continue adding the most people to the area, with an additional 3,333 people by 2026. Washington County is projected to decrease the most in population during this period at 357 fewer people by 2026.

Table 2: Projected Population by County

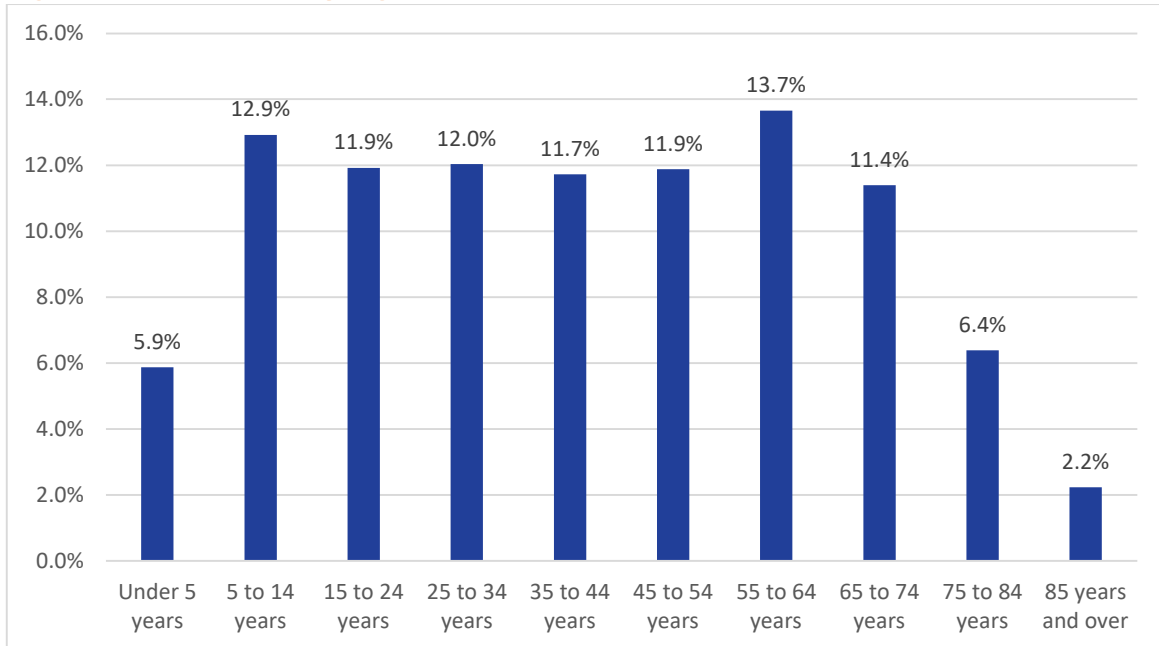
| County | 2021 Population | 2026 Population | Total Change |
|--------------|-----------------|-----------------|--------------|
| Craig | 14,099 | 13,981 | -118 |
| Delaware | 43,252 | 44,143 | 891 |
| Mayes | 41,206 | 41,593 | 387 |
| Nowata | 9,980 | 9,861 | -119 |
| Ottawa | 30,826 | 30,875 | 49 |
| Rogers | 93,905 | 97,238 | 3,333 |
| Washington | 52,141 | 51,784 | -357 |
| Total | 285,409 | 289,475 | 2,438 |

Source: Lightcast- economicmodeling.com- 2022.3

Population by Age

Figure 2 shows Northeast's population by age in 2021. 55- to 64-year-olds made up the largest percentage of the population at 13.7%. Individuals 5- to 14-years of age were the second largest percentage of the population at 12.9%. 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, more than half of all age groups increased in population. In particular, all groups aged 55 and over grew while most younger age groups declined during this period. Those aged 65- to 74-years of age increased by the most people at 2,712 while 75- to 84-year-olds were next at 1,974. 55- to 64-year-olds grew the least at just 200 more people since 2016. 45- to 54- and 15- to 24-year-olds declined the most during this period at 2,531 and 2,034 fewer people respectively.

Table 3: Population by Age

| Age | 2016 Population | 2021 Population | Total Change |
|-------------------|-----------------|-----------------|--------------|
| Under 5 years | 17,095 | 16,751 | -344 |
| 5 to 14 years | 37,118 | 36,878 | -240 |
| 15 to 24 years | 36,036 | 34,002 | -2,034 |
| 25 to 34 years | 33,026 | 34,341 | 1,315 |
| 35 to 44 years | 32,205 | 33,460 | 1,255 |
| 45 to 54 years | 36,434 | 33,903 | -2,531 |
| 55 to 64 years | 38,765 | 38,965 | 200 |
| 65 to 74 years | 29,814 | 32,526 | 2,712 |
| 75 to 84 years | 16,268 | 18,215 | 1,974 |
| 85 years and over | 5,886 | 6,367 | 481 |
| Total | 282,647 | 285,409 | 2,762 |

Source: Lightcast - economicmodeling.com- 2022.3

Table 4 provides the population change by age group from 2021 to 2026. During this period, half of all age groups are projected to increase in population. All age groups above 65 are projected to grow while several younger age groups are expected to decline. In particular, 75- to 84-year-olds will add the most people at 3,208 while 35- to 44-year-olds will double previous growth and add 2,521 more people. 5- to 14-year-olds will grow the least, adding 235 more people in the next five years. Alternatively, 55- to 64-year-olds are projected to decline the most with 2,076 fewer people by 2026. The population of 15- to 24-year-olds is projected to continue declining during this period, at 1,366 fewer people.

Table 4: Projected Population by Age

| Demographic | 2021 Population | 2026 Population | Total Change |
|-------------------|-----------------|-----------------|--------------|
| Under 5 | 16,751 | 16,537 | -214 |
| 5 to 14 | 36,879 | 37,114 | 235 |
| 15 to 24 | 34,002 | 32,637 | -1,366 |
| 25 to 34 | 34,341 | 33,706 | -635 |
| 35 to 44 | 33,460 | 35,981 | 2,521 |
| 45 to 54 | 33,903 | 33,349 | -554 |
| 55 to 64 | 38,965 | 36,889 | -2,076 |
| 65 to 74 | 32,526 | 34,654 | 2,128 |
| 75 to 84 | 18,215 | 21,423 | 3,208 |
| 85 years and over | 6,367 | 7,186 | 819 |
| Total | 285,409 | 289,474 | 4,065 |

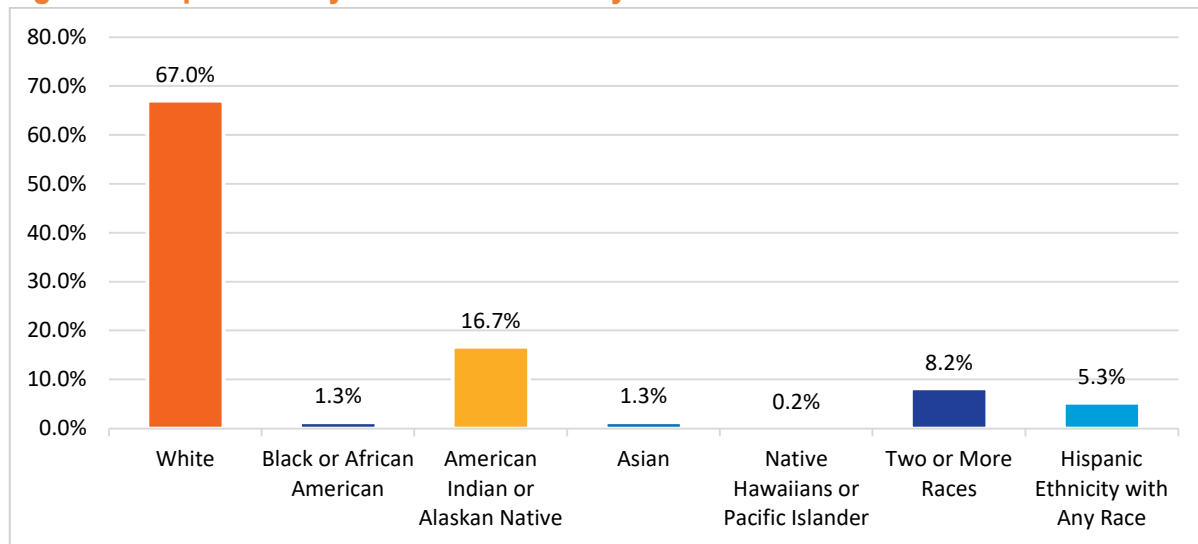
Source: Lightcast – economicmodeling.com – 2022.3

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 2 provides Northeast WFDA population percentages by race and ethnicity. This figure shows that Whites made up the largest percentage of the population at 67%. American Indian or Alaskan Natives were the second largest percentage of the population at 16.7%. Native Hawaiians or Pacific Islanders had the smallest amount of the population at 0.2%.

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, most demographic groups grew in population. Hispanic Ethnicity with Any Race and those identifying as Two or More Races added the most population during this period at 2,079 and 1,634 additional people, respectively. Alternatively, Native Hawaiian or Pacific Islanders added the least in total population during this period at 21 additional people. The White population declined by 2,111 people.

Table 5: Population by Race and Ethnicity

| Demographic | 2016 Population | 2021 Population | Total Change |
|-------------------------------------|-----------------|-----------------|--------------|
| White | 193,463 | 191,352 | -2,111 |
| Black or African American | 3,566 | 3,776 | 210 |
| American Indian or Alaskan Native | 47,144 | 47,586 | 442 |
| Asian | 3,255 | 3,741 | 486 |
| Native Hawaiian or Pacific Islander | 459 | 480 | 21 |
| Two or More Races | 21,814 | 23,448 | 1,634 |
| Hispanic Ethnicity with any Race | 12,946 | 15,025 | 2,079 |
| Total | 282,647 | 285,409 | 2,762 |

Source: Lightcast - economicmodeling.com- 2022.3

Table 6 provides the population change by demographic group from 2021 to 2026. During this period, most demographic groups are projected to grow in population. Hispanic and Two or More Races will continue to add the most population at 3,202 and 3,211 additional people by 2026, respectively. Alternatively, Native Hawaiian or Pacific Islanders will continue to add the least in total population at 125 additional people. The White population will continue to decline at 3,874 fewer people by 2026.

Table 6: Projected Population by Race and Ethnicity

| Demographic | 2021 Population | 2026 Population | Total Change |
|-------------------------------------|-----------------|-----------------|--------------|
| White | 191,352 | 187,477 | -3,874 |
| Black or African American | 3,776 | 4,322 | 545 |
| American Indian or Alaskan Native | 47,586 | 47,899 | 312 |
| Asian | 3,741 | 4,285 | 544 |
| Native Hawaiian or Pacific Islander | 480 | 605 | 125 |
| Two or More Races | 23,448 | 26,659 | 3,211 |
| Hispanic Ethnicity with any Race | 15,025 | 18,227 | 3,202 |
| Total | 285,409 | 289,474 | 4,065 |

Source: Lightcast – economicmodeling.com – 2022.3

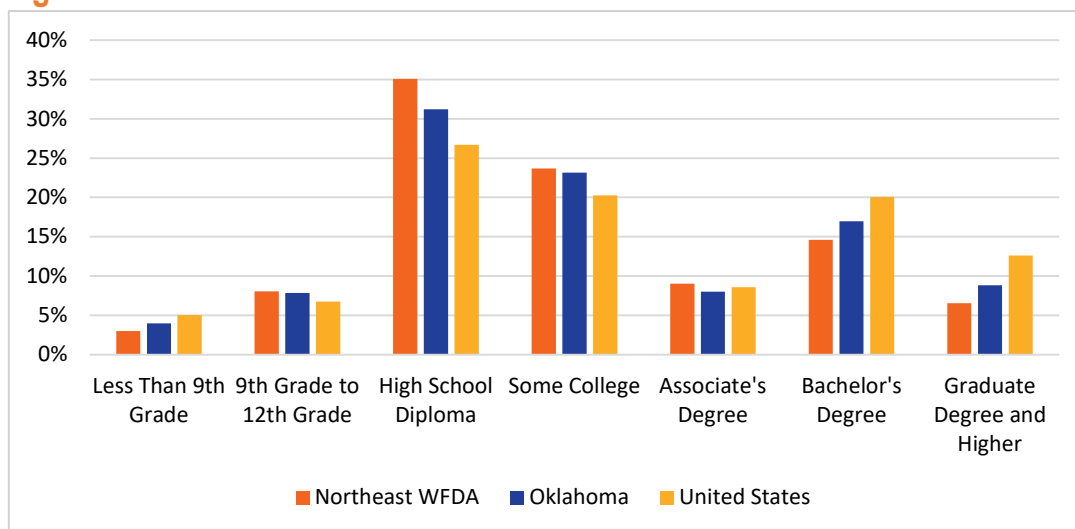
Education

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

Educational Attainment

Figure 4 shows the education attainment levels in 2021 for the Northeast WFDA, State of Oklahoma, and United States. In the Northeast WFDA, High school graduates made up the largest percentage of the population at 35% while the second largest population had attended Some College at 24%. 11% of population in Northeast had an education level below High School Diploma. This was one percentage point lower than the State and National rates of 12% and 13%, respectively. The Northeast WFDA is slightly below the State and Nation's overall educational attainment levels for traditional post-secondary degrees, namely, Bachelor's and Graduate degrees.

Figure 3: Education Attainment



Source: Lightcast- economicmodeling.com- 2022.3

Table 7 provides the change in educational attainment levels in the Northeast WFDA from 2016 to 2021. By 2021, fewer people had an education below the High School Diploma level while more people achieved higher levels of education than in 2016. In particular, those with a Bachelor's Degree grew the most during this period at 2,942 more people. Those with a Graduate Degree and Higher were next at an additional 1,746 people by 2021. Alternatively, a combined 1,689 fewer people had an education below High School Diploma level by 2021.

Conversely, those with a High School Diploma also decreased during this period at 143 fewer people than in 2016.

Table 7: Educational Attainment

| Education Level | 2016 Population | 2021 Population | Total Change |
|----------------------------|-----------------|-----------------|--------------|
| Less Than 9th Grade | 6,624 | 5,824 | -800 |
| 9th Grade to 12th Grade | 16,570 | 15,681 | -889 |
| High School Diploma | 68,966 | 68,823 | -143 |
| Some College | 46,073 | 46,855 | 782 |
| Associate's Degree | 16,415 | 18,155 | 1,740 |
| Bachelor's Degree | 26,319 | 29,261 | 2,942 |
| Graduate Degree and Higher | 11,431 | 13,177 | 1,746 |
| Total | 192,398 | 197,777 | 5,379 |

Source: Lightcast - economicmodeling.com- 2022.3

Table 8 provides the change in educational attainment levels in Northeast from 2021 to 2026. By 2026, fewer people will have an education below the High School Diploma level while more people will continue to achieve higher levels of education. In particular, those with a Bachelor's Degree will continue to grow more than other groups at 2,132 more people. Those with an Associate's Degree will be next at an additional 1,404 more people. Alternatively, a combined 677 fewer people will have an education below the High School Diploma level by 2026. Those with a High School Diploma will grow by 143 people during this period.

Table 8: Projected Educational Attainment

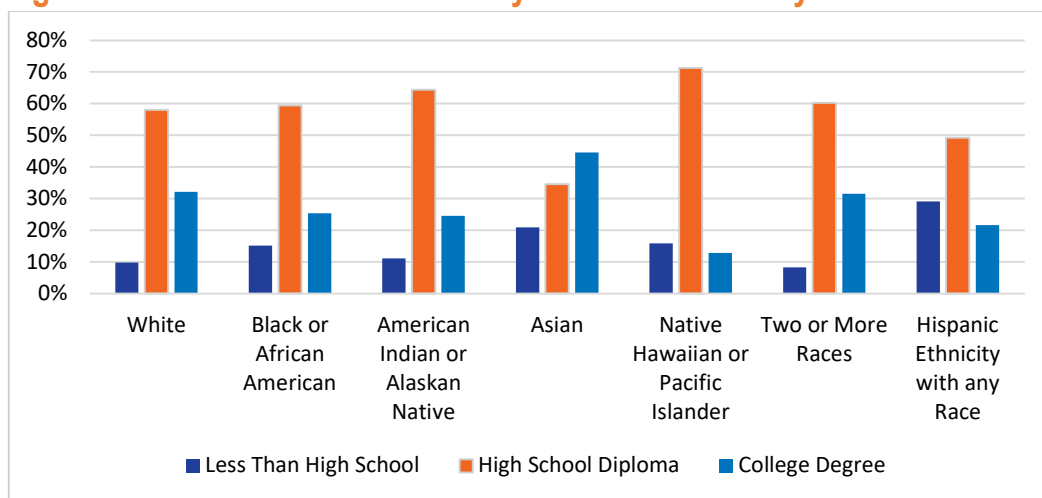
| Education Level | 2021 Population | 2026 Population | Total Change |
|----------------------------|-----------------|-----------------|--------------|
| Less Than 9th Grade | 5,824 | 5,518 | -306 |
| 9th Grade to 12th Grade | 15,681 | 15,310 | -371 |
| High School Diploma | 68,823 | 68,965 | 142 |
| Some College | 46,855 | 48,156 | 1,301 |
| Associate's Degree | 18,155 | 19,559 | 1,404 |
| Bachelor's Degree | 29,261 | 31,394 | 2,132 |
| Graduate Degree and Higher | 13,177 | 14,284 | 1,107 |
| Total | 197,777 | 203,186 | 5,409 |

Source: Lightcast – economicmodeling.com – 2022.3

Educational Attainment by Race and Ethnicity

Figure 5 shows the Northeast WFDA's educational attainment levels broken down by race and ethnicity. Across almost all racial and ethnic groups, High School Diploma represented the largest percentage of the respective group populations. Hispanic Ethnicity with Any Race had the largest population percentage at the Less than High School attainment level at 29%. Native Hawaiians or Pacific Islanders had the largest population percentage at the High School Diploma level at 71%. Asian Americans have the largest population percentage at the College Degree level at 45%.

Figure 4: Educational Attainment by Race and Ethnicity



Source: *Lightcast- economicmodeling.com- 2022.3*

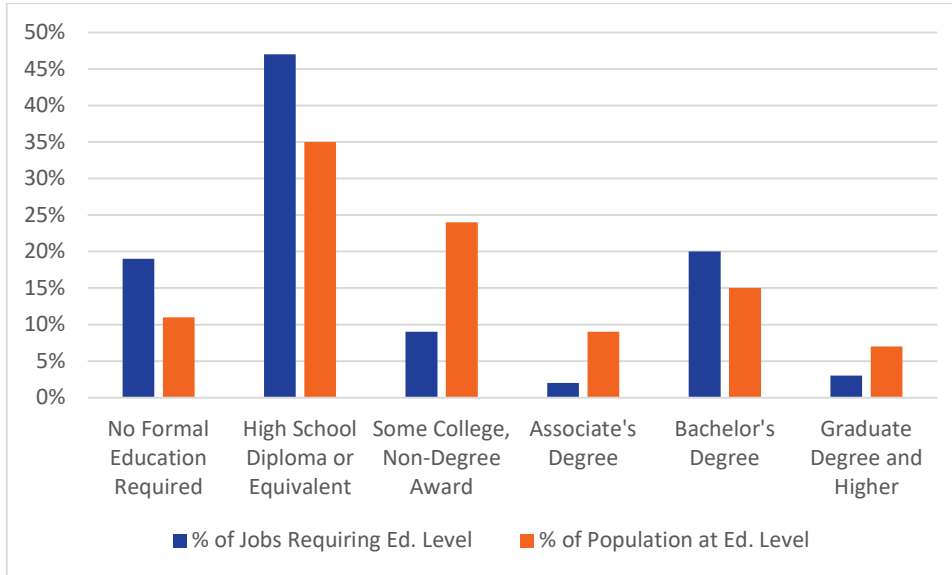
Education Mismatch

Figure 6 below shows an educational attainment mismatch analysis for the Northeast WFDA.¹ This compares the typical education required for jobs to the educational attainment of the population in 2021. 19% of jobs in Northeast require no formal education while just 11% 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, 47% of jobs in Northeast require this level of education while 35% of the population hold this level of education. 33% of the population had Some College or an Associate's Degree, while just 11% of jobs required these levels of education, suggesting underemployment. This is similar for those with a Graduate Degree or Higher, where 7% of the population is prepared

¹ 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.

for 3% of the jobs in the market. At the Bachelor's Degree level, 15% of the population have the degree while 20% of jobs require it.

Figure 5: Educational Attainment Mismatch



Source: *Lightcast- economicmodeling.com- 2022.3*

Educational Assets

The Northeast WFDA has 10 distinct post-secondary educational institutions, ranging from universities, technical colleges, community colleges, and specialty training schools (see Table 9.) 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 details accredited institutions and their degree types.

Table 9: Educational Assets

| Institution | Institution Type | City | County | Degree Types |
|-----------------------------------|--------------------|--------------|------------|---|
| Northeastern Oklahoma A&M College | Public | Miami | Ottawa | Associate, Certificate |
| Rogers State University | Public | Claremore | Rogers | Certificate, Associate, Bachelor, Master, Ph.D. |
| Rogers State University | Public | Bartlesville | Washington | Certificate, Associate, Bachelor, Master, Ph.D. |
| Rogers State University | Public | Pryor | Mayes | Certificate, Associate, Bachelor, Master, Ph.D. |
| Oklahoma Wesleyan University | Private Non-Profit | Bartlesville | Washington | Associate, Bachelor, Master, Ph.D., Certificate |
| Northeast Tech | Technical School | Afton | Ottawa | Certificate |
| Northeast Tech | Technical School | Claremore | Rogers | Certificate |
| Northeast Tech | Technical School | Kansas | Delaware | Certificate |
| Northeast Tech | Technical School | Pryor | Mayes | Certificate |
| Tri County Tech | Technical School | Bartlesville | Washington | Certificate |

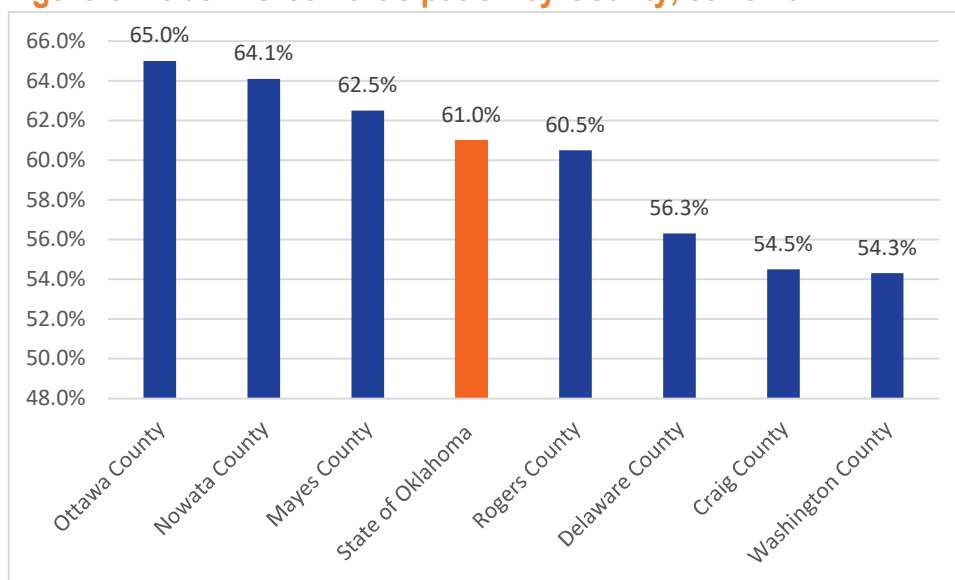
Sources: Oklahoma State Regents of Higher Education, CareerTech.org

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

Labor Force Participation by County

Figure 7 shows the Northeast WFDA labor force participation rate by county in June 2022. Currently, three of seven counties in the Northeast WFDA meet or exceed the Oklahoma state average labor force participation rate of 61%. The highest percentage is in Ottawa County at 65%. The second highest is in Nowata County at 64.1%. The third highest is in Mayes County at 62.5%. The lowest percentage is in Washington County at 54.3%. Currently, three of seven counties in the Northeast WFDA meet or exceed the Oklahoma state average labor force participation rate of 61%.

Figure 6: Labor Force Participation by County, June 2022

Source: Lightcast- economicmodeling.com- 2022.3

Table 10 below shows the labor force participation rate by county from June 2021 to June 2022. During this period, more than half of Northeast's county labor force participation rates decreased. This follows the general decline of the state's rate at -0.4% since June 2021. Ottawa County's labor force participation rate grew the most during this period at an additional 1.2%. Mayes and Washington's rates decreased by the most, each at -1.5%.

Table 10: Labor Force Participation by County

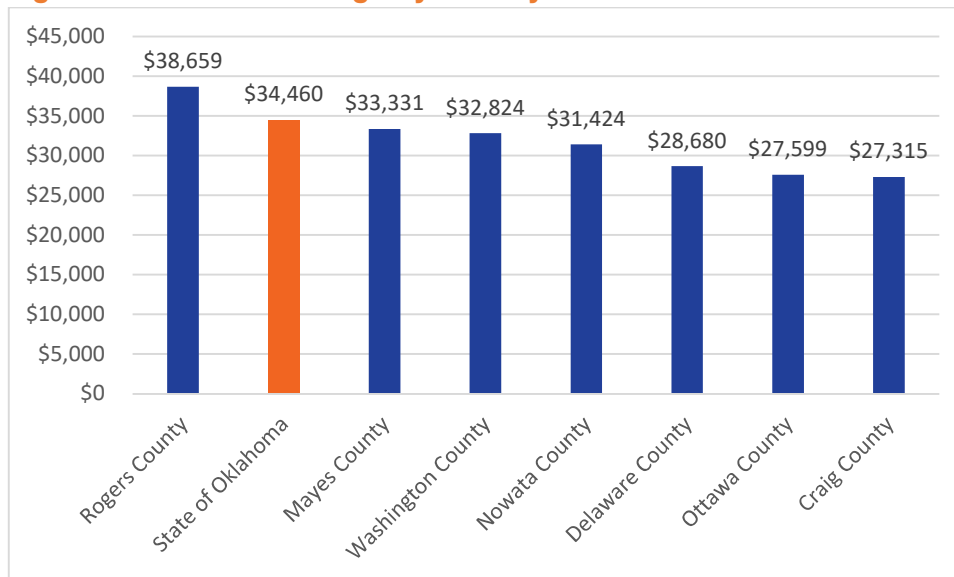
| Area | June 2021 | June 2022 | Total Change |
|-------------------|-----------|-----------|--------------|
| State of Oklahoma | 61.4% | 61.0% | -0.4% |
| Craig County | 54.7% | 54.5% | -0.2% |
| Delaware County | 57.6% | 56.3% | -1.3% |
| Mayes County | 64.1% | 62.5% | -1.5% |
| Nowata County | 64.9% | 64.1% | -0.8% |
| Ottawa County | 63.8% | 65.0% | 1.2% |
| Rogers County | 59.9% | 60.5% | 0.7% |
| Washington County | 55.8% | 54.3% | -1.5% |

Source: Lightcast- economicmodeling.com- 2022.3

Median Earnings

Figure 8 provides the median earnings of those that are over the age of 16 in each of Northeast's counties and the State of Oklahoma as a whole in 2021. The highest earnings were found in Rogers County at \$39,659. The second highest were in Mayes County at \$33,331. The third highest were in Washington County at \$32,824. The lowest median earnings were in Craig County at \$27,315. Overall, one of Northeast's counties boasted median earnings beyond those found at the state level, while the rest fell below this level.

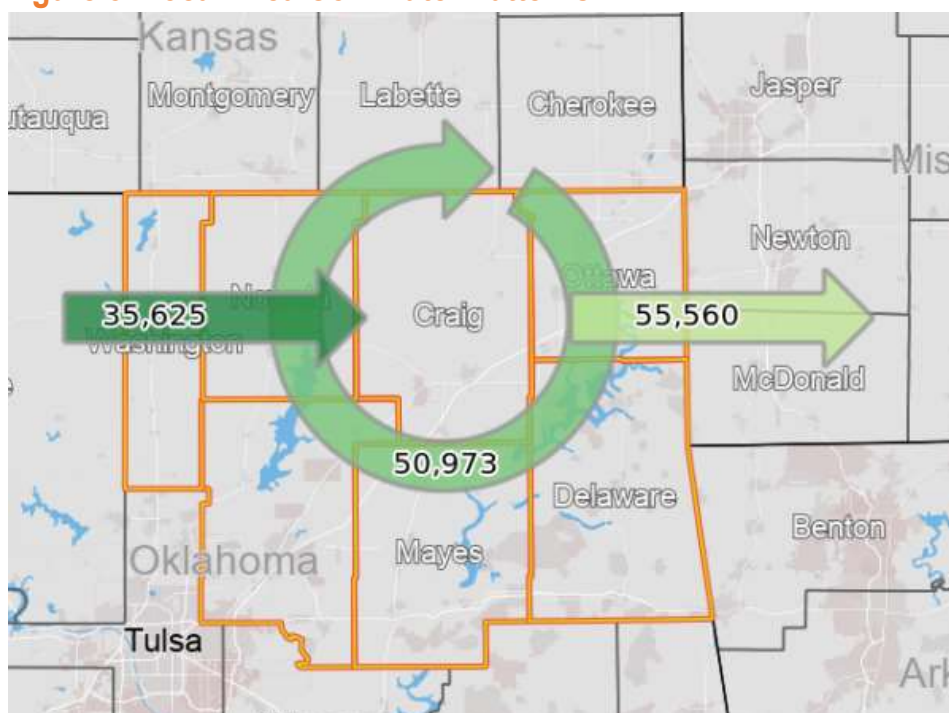
Figure 7: Median Earnings by County



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 Northeast WFDA 35,625 work in the area and did not live there. 50,973 lived there and worked there. 55,560 lived in the Northeast WFDA and worked outside the area (see Figure 8.)

Figure 8: 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.

Table 11 below shows the top ten industries in the Northeast WFDA by the total number of jobs in 2021. There was an estimated 84,243 number of total jobs in Northeast in 2021. The largest sector was Government with 19,750 jobs. The second largest sector was Retail Trade with 10,773 jobs. The tenth largest sector was Other Services (except Public Administration) with 2,168 jobs. Together, these industries made up 87.1% of the total jobs in the area in 2021.

Table 11: Top Industries by Total Jobs

| NAICS | Description | 2021 Jobs | Percentage of Total Employment |
|-------|--|-----------|--------------------------------|
| 90 | Government | 19,750 | 23.4% |
| 44 | Retail Trade | 10,773 | 12.8% |
| 62 | Health Care and Social Assistance | 9,743 | 11.6% |
| 31 | Manufacturing | 9,417 | 11.2% |
| 72 | Accommodation and Food Services | 7,657 | 9.1% |
| 23 | Construction | 4,454 | 5.3% |
| 56 | Administrative and Support and Waste Management and Remediation Services | 4,009 | 4.8% |
| 21 | Mining, Quarrying, and Oil and Gas Extraction | 3,113 | 3.7% |
| 42 | Wholesale Trade | 2,196 | 2.6% |
| 81 | Other Services (except Public Administration) | 2,168 | 2.6% |

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 9: Target and Complementary Sectors

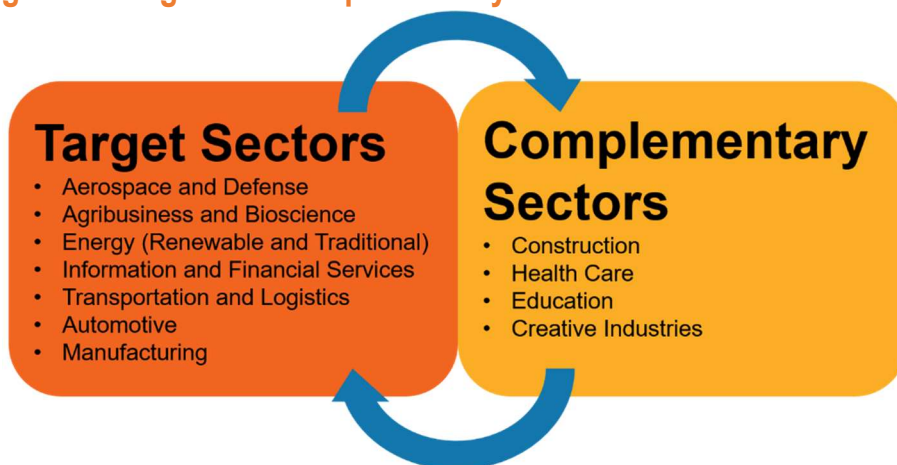


Table 12 shows the estimated number of new jobs for each of the target sectors in 2026, along with the growth rate and average earnings per job in the target sector. All target sectors are projected to grow with the exception of the energy sector.

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 | 2,743 | 2,799 | 56 | 2% | \$69,137 |
| Agribusiness and Bioscience | 4,612 | 5,026 | 414 | 9% | \$68,945 |
| Energy (Renewable and Traditional) | 6,716 | 6,163 | -553 | -8% | \$117,783 |
| Information and Financial Services | 3,593 | 3,807 | 214 | 6% | \$79,943 |
| Manufacturing | 9,417 | 9,562 | 145 | 2% | \$73,574 |
| Transportation and Logistics (Includes Automotive) | 4,464 | 4,789 | 325 | 7% | \$66,602 |

Source: Lightcast- 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 Northeast WFDA's population, educational attainment and assets, labor force information, top industry data, and target and complementary sectors. The Northeast 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.

Appendix

Target and Complementary NAICS Codes

Aerospace and Defense Industries

| NAICS | Industry Description |
|--------------|--|
| 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

| NAICS | Industry Description |
|--------------|-----------------------------|
| 21112 | Crude Petroleum Extraction |
| 21113 | Natural Gas Extraction |
| 21211 | Coal Mining |

NAICS Industry Description

| | |
|-------|--|
| 21311 | Support Activities for Mining |
| 22111 | Electric Power Generation |
| 22112 | Electric Power Transmission, Control, and Distribution |
| 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 |
| 33341 | Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment 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 |
| 42472 | Petroleum and Petroleum Products Merchant Wholesalers (except Bulk Stations and 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 |

NAICS Industry Description

| | |
|-------|---|
| 11521 | Support Activities for Animal Production |
| 11531 | Support Activities for Forestry |
| 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 |
| 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 |

NAICS Industry Description

| | |
|-------|--|
| 33311 | Agricultural Implement Manufacturing |
| 33451 | Navigational, Measuring, Electromedical, and Control Instruments Manufacturing |
| 33461 | Manufacturing and Reproducing Magnetic and Optical Media |
| 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 |

NAICS Industry Description

| | |
|-------|--|
| 52213 | Credit Unions |
| 52219 | Other Depository Credit Intermediation |
| 52221 | Credit Card Issuing |
| 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 |

NAICS Industry Description

| | |
|-------|---|
| 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 |
| 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 |

NAICS Industry Description

| | |
|-------|--|
| 42393 | Recyclable Material Merchant Wholesalers |
| 42394 | Jewelry, Watch, Precious Stone, and Precious Metal Merchant Wholesalers |
| 42399 | Other Miscellaneous Durable Goods Merchant Wholesalers |
| 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 |

NAICS Industry Description

| | |
|-------|---|
| 48412 | General Freight Trucking, Long-Distance |
| 48422 | Specialized Freight (except Used Goods) Trucking, Local |
| 48423 | Specialized Freight (except Used Goods) Trucking, Long-Distance |
| 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 |

NAICS Industry Description

| | |
|-------|---|
| 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 |
| 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 |

NAICS Industry Description

| | |
|-------|---|
| 32312 | Support Activities for Printing |
| 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 |
| 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 |

NAICS Industry Description

| | |
|-------|---|
| 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 |
| 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 Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment |
| 33341 | 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 |

NAICS Industry Description

| | |
|-------|--|
| 33512 | Lighting Fixture Manufacturing |
| 33521 | Small Electrical Appliance Manufacturing |
| 33522 | Major Household Appliance Manufacturing |
| 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 |

NAICS Industry Description

| | |
|-------|--|
| 23713 | Power and Communication Line and Related Structures Construction |
| 23721 | Land Subdivision |
| 23731 | Highway, Street, and Bridge Construction |
| 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 |

NAICS Industry Description

| | |
|-------|---|
| 62311 | Nursing Care Facilities (Skilled Nursing Facilities) |
| 62321 | Residential Intellectual and Developmental Disability Facilities |
| 62322 | Residential Mental Health and Substance Abuse Facilities |
| 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 |

NAICS Industry Description

| | |
|-------|---|
| 54134 | Drafting Services |
| 54141 | Interior Design Services |
| 54142 | Industrial Design Services |
| 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 |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 51-9161 | Computer Numerically Controlled Tool Operators | 224 | 212 | -12 | -5% | 8.2% | \$16.35 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 51-4121 | Welders, Cutters, Solderers, and Brazers | 191 | 186 | -5 | -3% | 7.0% | \$19.63 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 51-4041 | Machinists | 157 | 151 | -6 | -4% | 5.7% | \$21.65 | High school diploma or equivalent | None | Long-term on-the-job training |
| 51-1011 | First-Line Supervisors of Production and Operating Workers | 114 | 112 | -2 | -2% | 4.1% | \$29.01 | High school diploma or equivalent | Less than 5 years | None |
| 11-1021 | General and Operations Managers | 91 | 96 | 5 | 6% | 3.3% | \$35.72 | Bachelor's degree | 5 years or more | None |
| 51-2098 | Miscellaneous Assemblers and Fabricators | 90 | 86 | -5 | -5% | 3.3% | \$16.62 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 51-9124 | Coating, Painting, and Spraying Machine Setters, | 79 | 76 | -2 | -3% | 2.9% | \$18.91 | High school diploma or equivalent | None | Moderate-term on-the-job training |

| | | | | | | | | | | |
|---------|--|----|----|----|-----|------|---------|-----------------------------------|------|-----------------------------------|
| | Operators, and Tenders | | | | | | | | | |
| 51-9061 | Inspectors, Testers, Sorters, Samplers, and Weighers | 67 | 62 | -5 | -7% | 2.4% | \$21.98 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 51-4193 | Plating Machine Setters, Operators, and Tenders, Metal and Plastic | 58 | 54 | -5 | -8% | 2.1% | \$19.21 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 15-1252 | Software Developers | 55 | 58 | 3 | 6% | 2.0% | \$48.08 | 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 |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 49-9041 | Industrial Machinery Mechanics | 55 | 75 | 21 | 38% | 2.0% | \$26.84 | High school diploma or equivalent | None | Long-term on-the-job training |
| 51-2028 | Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers | 37 | 47 | 10 | 28% | 1.3% | \$16.36 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 49-9081 | Wind Turbine Service Technicians | 10 | 18 | 8 | 78% | 0.4% | \$21.08 | Postsecondary nondegree award | None | Long-term on-the-job training |
| 11-1021 | General and Operations Managers | 91 | 96 | 5 | 6% | 3.3% | \$35.72 | Bachelor's degree | 5 years or more | None |
| 49-1011 | First-Line Supervisors of Mechanics, Installers, and Repairers | 17 | 21 | 4 | 23% | 0.6% | \$29.40 | High school diploma or equivalent | Less than 5 years | None |
| 17-2071 | Electrical Engineers | 13 | 16 | 3 | 25% | 0.5% | \$42.32 | Bachelor's degree | None | None |
| 15-1252 | Software Developers | 55 | 58 | 3 | 6% | 2.0% | \$48.08 | Bachelor's degree | None | None |
| 17-2112 | Industrial Engineers | 18 | 21 | 3 | 16% | 0.7% | \$39.20 | 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 |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-------------------------------|
| 49-3011 | Aircraft Mechanics and Service Technicians | 14 | 16 | 3 | 21% | 0.5% | \$29.54 | Postsecondary nondegree award | None | None |
| 49-9043 | Maintenance Workers, Machinery | 39 | 41 | 3 | 7% | 1.4% | \$28.57 | High school diploma or equivalent | None | Long-term on-the-job training |

Source: Lightcast- 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 |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 45-2092 | Farmworkers and Laborers, Crop, Nursery, and Greenhouse | 306 | 339 | 33 | 11% | 6.6% | \$12.94 | No formal educational credential | None | Short-term on-the-job training |
| 11-9013 | Farmers, Ranchers, and Other Agricultural Managers | 221 | 236 | 15 | 7% | 4.8% | \$16.72 | High school diploma or equivalent | 5 years or more | None |
| 51-9011 | Chemical Equipment Operators and Tenders | 202 | 221 | 19 | 9% | 4.4% | \$22.91 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 45-2093 | Farmworkers, Farm, Ranch, and Aquacultural Animals | 179 | 196 | 18 | 10% | 3.9% | \$10.86 | No formal educational credential | None | Short-term on-the-job training |
| 53-7062 | Laborers and Freight, Stock, and Material Movers, Hand | 165 | 180 | 15 | 9% | 3.6% | \$14.24 | No formal educational credential | None | Short-term on-the-job training |
| 51-1011 | First-Line Supervisors of Production and Operating Workers | 140 | 155 | 15 | 11% | 3.0% | \$29.01 | 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 |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 51-9196 | Paper Goods Machine Setters, Operators, and Tenders | 116 | 128 | 13 | 11% | 2.5% | \$27.35 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 31-9096 | Veterinary Assistants and Laboratory Animal Caretakers | 100 | 108 | 8 | 8% | 2.2% | \$12.09 | High school diploma or equivalent | None | Short-term on-the-job training |
| 51-9111 | Packaging and Filling Machine Operators and Tenders | 94 | 104 | 10 | 10% | 2.0% | \$15.02 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 53-3032 | Heavy and Tractor-Trailer Truck Drivers | 89 | 99 | 10 | 12% | 1.9% | \$21.49 | Postsecondary nondegree award | None | Short-term on-the-job training |

Source: Lightcast- 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 |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 45-2092 | Farmworkers and Laborers, Crop, Nursery, and Greenhouse | 306 | 339 | 33 | 11% | 6.6% | \$12.94 | No formal educational credential | None | Short-term on-the-job training |
| 51-9011 | Chemical Equipment Operators and Tenders | 202 | 221 | 19 | 9% | 4.4% | \$22.91 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 45-2093 | Farmworkers, Farm, Ranch, and Aquacultural Animals | 179 | 196 | 18 | 10% | 3.9% | \$10.86 | No formal educational credential | None | Short-term on-the-job training |
| 53-7062 | Laborers and Freight, Stock, and Material Movers, Hand | 165 | 180 | 15 | 9% | 3.6% | \$14.24 | No formal educational credential | None | Short-term on-the-job training |
| 11-9013 | Farmers, Ranchers, and Other Agricultural Managers | 221 | 236 | 15 | 7% | 4.8% | \$16.72 | High school diploma or equivalent | 5 years or more | None |
| 51-1011 | First-Line Supervisors of Production and Operating Workers | 140 | 155 | 15 | 11% | 3.0% | \$29.01 | High school diploma or equivalent | Less than 5 years | None |
| 49-9041 | Industrial Machinery Mechanics | 55 | 68 | 13 | 24% | 1.2% | \$26.84 | High school diploma or equivalent | None | Long-term on-the-job training |
| 51-9196 | Paper Goods Machine Setters, | 116 | 128 | 13 | 11% | 2.5% | \$27.35 | High school | 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 |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| | Operators, and Tenders | | | | | | | diploma or equivalent | | the-job training |
| 41-4012 | Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products | 74 | 86 | 12 | 16% | 1.6% | \$22.79 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 51-3011 | Bakers | 32 | 43 | 12 | 36% | 0.7% | \$12.00 | No formal educational credential | None | Long-term on-the-job training |

Source: Lightcast- 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 |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 51-4121 | Welders, Cutters, Solderers, and Brazers | 395 | 306 | -89 | -23% | 5.9% | \$19.63 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 13-2011 | Accountants and Auditors | 270 | 269 | -1 | 0% | 4.0% | \$36.64 | Bachelor's degree | None | None |
| 51-2098 | Miscellaneous Assemblers and Fabricators | 251 | 191 | -60 | -24% | 3.7% | \$16.62 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 11-1021 | General and Operations Managers | 232 | 223 | -9 | -4% | 3.5% | \$35.72 | Bachelor's degree | 5 years or more | None |
| 47-1011 | First-Line Supervisors of Construction Trades and Extraction Workers | 201 | 185 | -16 | -8% | 3.0% | \$29.07 | High school diploma or equivalent | 5 years or more | None |
| 51-1011 | First-Line Supervisors of Production and Operating Workers | 195 | 172 | -23 | -12% | 2.9% | \$29.01 | High school diploma or equivalent | Less than 5 years | None |
| 43-3031 | Bookkeeping, Accounting, and Auditing Clerks | 171 | 158 | -13 | -8% | 2.5% | \$17.67 | Some college, no degree | 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 |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|--------------------------------|
| 47-5011 | Derrick Operators, Oil and Gas | 161 | 153 | -8 | -5% | 2.4% | \$20.82 | No formal educational credential | None | Short-term on-the-job training |
| 49-9051 | Electrical Power-Line Installers and Repairers | 124 | 127 | 2 | 2% | 1.9% | \$32.79 | High school diploma or equivalent | None | Long-term on-the-job training |
| 43-9061 | Office Clerks, General | 118 | 108 | -10 | -8% | 1.8% | \$14.30 | High school diploma or equivalent | None | Short-term on-the-job training |

Source: Lightcast- 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 |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 47-5044 | Loading and Moving Machine Operators, Underground Mining | 37 | 58 | 21 | 57% | 0.5% | \$28.33 | No formal educational credential | None | Short-term on-the-job training |
| 51-2028 | Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers | 45 | 49 | 4 | 9% | 0.7% | \$16.36 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 49-9081 | Wind Turbine Service Technicians | 10 | 13 | 3 | 31% | 0.2% | \$21.08 | Postsecondary nondegree award | None | Long-term on-the-job training |
| 47-5022 | Excavating and Loading Machine and Dragline Operators, Surface Mining | 12 | 15 | 3 | 21% | 0.2% | \$15.04 | High school diploma or equivalent | Less than 5 years | Moderate-term on-the-job training |
| 51-8093 | Petroleum Pump System Operators, Refinery Operators, and Gaugers | 82 | 84 | 2 | 3% | 1.2% | \$37.46 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 49-9051 | Electrical Power-Line Installers and Repairers | 124 | 127 | 2 | 2% | 1.9% | \$32.79 | 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 |
|---------|---|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 11-3031 | Financial Managers | 66 | 69 | 2 | 3% | 1.0% | \$50.63 | Bachelor's degree | 5 years or more | None |
| 47-2111 | Electricians | 54 | 56 | 2 | 4% | 0.8% | \$26.62 | High school diploma or equivalent | None | Apprenticeship |
| 15-1252 | Software Developers | 26 | 27 | 1 | 4% | 0.4% | \$48.08 | Bachelor's degree | None | None |
| 23-2093 | Title Examiners, Abstractors, and Searchers | 28 | 28 | 1 | 3% | 0.4% | \$15.38 | High school diploma or equivalent | None | Moderate-term on-the-job training |

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 | 353 | 284 | -69 | -20% | 9.8% | \$12.64 | High school diploma or equivalent | None | Short-term on-the-job training |
| 43-4051 | Customer Service Representatives | 200 | 209 | 10 | 5% | 5.6% | \$14.65 | High school diploma or equivalent | None | Short-term on-the-job training |
| 13-2011 | Accountants and Auditors | 198 | 222 | 24 | 12% | 5.5% | \$36.64 | Bachelor's degree | None | None |
| 43-4131 | Loan Interviewers and Clerks | 178 | 160 | -19 | -10% | 5.0% | \$15.54 | High school diploma or equivalent | None | Short-term on-the-job training |
| 49-2022 | Telecommunications Equipment Installers and Repairers, Except Line Installers | 173 | 240 | 67 | 39% | 4.8% | \$18.72 | Postsecondary nondegree award | None | Moderate-term on-the-job training |
| 13-2072 | Loan Officers | 165 | 152 | -13 | -8% | 4.6% | \$28.39 | Bachelor's degree | Less than 5 years | Moderate-term on-the-job training |
| 43-1011 | First-Line Supervisors of Office and Administrative Support Workers | 128 | 122 | -6 | -5% | 3.6% | \$23.01 | 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 |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 43-3031 | Bookkeeping, Accounting, and Auditing Clerks | 116 | 119 | 3 | 2% | 3.2% | \$17.67 | Some college, no degree | None | Moderate-term on-the-job training |
| 15-1252 | Software Developers | 111 | 130 | 19 | 17% | 3.1% | \$48.08 | Bachelor's degree | None | None |
| 41-3091 | Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel | 103 | 131 | 28 | 27% | 2.9% | \$20.08 | High school diploma or equivalent | None | Moderate-term on-the-job training |

Source: Lightcast- 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 |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 49-2022 | Telecommunications Equipment Installers and Repairers, Except Line Installers | 173 | 240 | 67 | 39% | 4.8% | \$18.72 | Postsecondary nondegree award | None | Moderate-term on-the-job training |
| 41-3091 | Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel | 103 | 131 | 28 | 27% | 2.9% | \$20.08 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 13-2011 | Accountants and Auditors | 198 | 222 | 24 | 12% | 5.5% | \$36.64 | Bachelor's degree | None | None |
| 49-9052 | Telecommunications Line Installers and Repairers | 50 | 73 | 23 | 46% | 1.4% | \$23.86 | High school diploma or equivalent | None | Long-term on-the-job training |
| 15-1252 | Software Developers | 111 | 130 | 19 | 17% | 3.1% | \$48.08 | Bachelor's degree | None | None |
| 43-4051 | Customer Service Representatives | 200 | 209 | 10 | 5% | 5.6% | \$14.65 | High school diploma or equivalent | None | Short-term on-the-job training |
| 13-1161 | Market Research Analysts and Marketing Specialists | 60 | 70 | 9 | 16% | 1.7% | \$23.09 | Bachelor's degree | None | None |
| 15-1231 | Computer Network Support Specialists | 37 | 47 | 9 | 25% | 1.0% | \$29.52 | Associate'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 |
|---------|---------------------------------|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-------------------------------|--------------------------|-----------------------------|
| 11-3031 | Financial Managers | 83 | 90 | 7 | 9% | 2.3% | \$50.63 | Bachelor's degree | 5 years or more | None |
| 11-1021 | General and Operations Managers | 91 | 98 | 7 | 8% | 2.5% | \$35.72 | Bachelor's degree | 5 years or more | None |

Source: Lightcast- 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 |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 51-4121 | Welders, Cutters, Solderers, and Brazers | 697 | 621 | -76 | -11% | 7.4% | \$19.63 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 51-2098 | Miscellaneous Assemblers and Fabricators | 614 | 564 | -50 | -8% | 6.5% | \$16.62 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 51-1011 | First-Line Supervisors of Production and Operating Workers | 525 | 539 | 14 | 3% | 5.6% | \$29.01 | High school diploma or equivalent | Less than 5 years | None |
| 51-9161 | Computer Numerically Controlled Tool Operators | 420 | 396 | -24 | -6% | 4.5% | \$16.35 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 53-7062 | Laborers and Freight, Stock, and Material Movers, Hand | 271 | 288 | 17 | 6% | 2.9% | \$14.24 | No formal educational credential | None | Short-term on-the-job training |
| 51-4041 | Machinists | 265 | 251 | -15 | -6% | 2.8% | \$21.65 | High school diploma or equivalent | None | Long-term on-the-job training |
| 51-9011 | Chemical Equipment Operators and Tenders | 242 | 252 | 10 | 4% | 2.6% | \$22.91 | 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 |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 51-9061 | Inspectors, Testers, Sorters, Samplers, and Weighers | 233 | 226 | -7 | -3% | 2.5% | \$21.98 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 43-5071 | Shipping, Receiving, and Inventory Clerks | 210 | 206 | -4 | -2% | 2.2% | \$15.63 | High school diploma or equivalent | None | Short-term on-the-job training |
| 11-1021 | General and Operations Managers | 196 | 204 | 8 | 4% | 2.1% | \$35.72 | Bachelor's degree | 5 years or more | None |

Source: Lightcast- 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 |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 49-9041 | Industrial Machinery Mechanics | 124 | 147 | 23 | 18% | 1.3% | \$26.84 | High school diploma or equivalent | None | Long-term on-the-job training |
| 53-3032 | Heavy and Tractor-Trailer Truck Drivers | 157 | 175 | 18 | 11% | 1.7% | \$21.49 | Postsecondary nondegree award | None | Short-term on-the-job training |
| 53-7062 | Laborers and Freight, Stock, and Material Movers, Hand | 271 | 288 | 17 | 6% | 2.9% | \$14.24 | No formal educational credential | None | Short-term on-the-job training |
| 51-5112 | Printing Press Operators | 66 | 81 | 15 | 23% | 0.7% | \$14.49 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 51-9196 | Paper Goods Machine Setters, Operators, and Tenders | 116 | 130 | 14 | 12% | 1.2% | \$27.35 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 51-1011 | First-Line Supervisors of Production and Operating Workers | 525 | 539 | 14 | 3% | 5.6% | \$29.01 | High school diploma or equivalent | Less than 5 years | None |
| 49-9043 | Maintenance Workers, Machinery | 194 | 207 | 12 | 6% | 2.1% | \$28.57 | High school diploma or equivalent | None | Long-term on-the-job training |
| 53-7051 | Industrial Truck and Tractor Operators | 111 | 122 | 12 | 11% | 1.2% | \$19.84 | 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 |
|---------|--------------------------|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|----------------------------------|--------------------------|--------------------------------|
| 51-3011 | Bakers | 31 | 42 | 11 | 36% | 0.3% | \$12.00 | No formal educational credential | None | Long-term on-the-job training |
| 51-6031 | Sewing Machine Operators | 70 | 82 | 11 | 16% | 0.7% | \$10.73 | No formal educational credential | None | Short-term on-the-job training |

Source: Lightcast- 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 | 629 | 701 | 72 | 11% | 14.1% | \$21.49 | Postsecondary nondegree award | None | Short-term on-the-job training |
| 53-7062 | Laborers and Freight, Stock, and Material Movers, Hand | 418 | 450 | 32 | 8% | 9.4% | \$14.24 | No formal educational credential | None | Short-term on-the-job training |
| 53-7065 | Stockers and Order Fillers | 286 | 310 | 24 | 8% | 6.4% | \$14.35 | High school diploma or equivalent | None | Short-term on-the-job training |
| 41-4012 | Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products | 262 | 288 | 26 | 10% | 5.9% | \$22.79 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 53-7051 | Industrial Truck and Tractor Operators | 214 | 231 | 16 | 8% | 4.8% | \$19.84 | No formal educational credential | None | Short-term on-the-job training |
| 41-4011 | Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products | 142 | 149 | 6 | 5% | 3.2% | \$27.88 | Bachelor's degree | 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 |
|---------|---|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 11-1021 | General and Operations Managers | 139 | 149 | 11 | 8% | 3.1% | \$35.72 | Bachelor's degree | 5 years or more | None |
| 53-3033 | Light Truck Drivers | 122 | 137 | 14 | 11% | 2.7% | \$15.22 | High school diploma or equivalent | None | Short-term on-the-job training |
| 51-2098 | Miscellaneous Assemblers and Fabricators | 111 | 105 | -7 | -6% | 2.5% | \$16.62 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 43-5071 | Shipping, Receiving, and Inventory Clerks | 111 | 113 | 2 | 1% | 2.5% | \$15.63 | High school diploma or equivalent | None | Short-term on-the-job training |

Source: Lightcast- 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 |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 53-3032 | Heavy and Tractor-Trailer Truck Drivers | 629 | 701 | 72 | 11% | 14.1% | \$21.49 | Postsecondary nondegree award | None | Short-term on-the-job training |
| 53-7062 | Laborers and Freight, Stock, and Material Movers, Hand | 418 | 450 | 32 | 8% | 9.4% | \$14.24 | No formal educational credential | None | Short-term on-the-job training |
| 41-4012 | Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products | 262 | 288 | 26 | 10% | 5.9% | \$22.79 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| 53-7065 | Stockers and Order Fillers | 286 | 310 | 24 | 8% | 6.4% | \$14.35 | High school diploma or equivalent | None | Short-term on-the-job training |
| 53-7051 | Industrial Truck and Tractor Operators | 214 | 231 | 16 | 8% | 4.8% | \$19.84 | No formal educational credential | None | Short-term on-the-job training |
| 53-3031 | Driver/Sales Workers | 59 | 74 | 15 | 26% | 1.3% | \$8.68 | High school diploma or equivalent | None | Short-term on-the-job training |
| 53-3033 | Light Truck Drivers | 122 | 137 | 14 | 11% | 2.7% | \$15.22 | High school diploma or equivalent | None | Short-term on-the-job training |
| 11-1021 | General and Operations Managers | 139 | 149 | 11 | 8% | 3.1% | \$35.72 | 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 |
|---------|--|-----------------------------------|-----------------------------------|----------------------|------------------------|--|------------------------|-----------------------------------|--------------------------|-----------------------------------|
| 53-1047 | First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling Supervisors | 85 | 93 | 8 | 10% | 1.9% | \$25.23 | High school diploma or equivalent | Less than 5 years | None |
| 41-4011 | Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products | 142 | 149 | 6 | 5% | 3.2% | \$27.88 | Bachelor's degree | None | Moderate-term on-the-job training |

Source: Lightcast- economicmodeling.com- 2022.3