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A semi-transparent map of the state of Michigan is overlaid on a background image of the Detroit skyline at dusk. The map is divided into county-level regions. A small orange dot is located in the southeastern part of the state, indicating the location of Detroit.

# **LABOR MARKET REPORT CITY OF DETROIT**

**Q2 2022  
April - June**

# INTRODUCTION

City of Detroit

Q2 2022



## About This Report

The Workforce Intelligence Network for Southeast Michigan (WIN) partnership is a collaboration of Michigan Works! Agencies (MWAs) and community colleges across a 19-county region in Michigan. The counties in the WIN partnership include Clinton, Eaton, Genesee, Hillsdale, Huron, Ingham, Jackson, Lapeer, Lenawee, Livingston, Macomb, Monroe, Oakland, St. Clair, Sanilac, Shiawassee, Tuscola, Washtenaw, and Wayne, along with the City of Detroit.

The WIN data and research team analyzes job posting data at the occupation level within eleven customized occupation groups built using specific Standard Occupational Classification (SOC) codes to provide more contextualized information. Occupation groups combine data for jobs with similar skillsets, educational attainment, and experience requirements, which provides a more in-depth snapshot of the current labor market when compared to traditional industry data based upon North American Industry Classification System (NAICS) codes. Occupation outlook sections utilize these metrics to identify and display the top in-demand jobs, entry-level requirements, and earning potential.

WIN produces a quarterly 19-county region report using data from all eleven occupation groups. A report focused on the city of Detroit is also produced quarterly, focusing on five occupation groups related to the Detroit labor market. County reports are produced annually and focus on five occupation groups chosen to reflect the labor market specific to the county.

This report highlights labor market information and real-time job posting data for the City of Detroit, including a workforce overview that identifies key components of the area's labor market such as labor force status, demographic, and commuting data. WIN's analysis of online job postings, a proxy for employer demand, is a pioneering method for tracking the labor market's health. This data is used to provide real-time demand and job posting information for both employers and job seekers. This report analyzes the second quarter of 2022 labor market information from the City of Detroit for the Business and Finance, Energy, Healthcare, Information Technology (IT), and Skilled Trades occupation groups.

For more information about the southeast Michigan labor market, custom occupation groups, and workforce-related data projects, please visit [www.WINintelligence.org](http://www.WINintelligence.org) or contact the data and research team directly at [research@WINintelligence.org](mailto:research@WINintelligence.org). For more information about jobseeker resources and our partners, please visit [www.micareertraining.org](http://www.micareertraining.org).

## REPORT CONTENTS

- 2 - State of the Labor Market
- 3 - Key Findings
- 4 - Workforce Overview
- 8 - Real-Time Demand Overview

### Occupation Groups

- 9 - Business and Finance
- 12 - Energy
- 15 - Healthcare
- 18 - Information Technology
- 21 - Skilled Trades and Technicians

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# ANNUAL STATE OF THE LABOR MARKET

## State of the Labor Market in the City of Detroit

The city of Detroit experienced a decline in both the labor force and overall employment, as the labor market continued to experience major shifts in hiring and skills demanded due to the COVID-19 crisis. In Q2 2022, the labor force, employment, and unemployment figures all decreased from Q1 to Q2 2022. The number of unemployed workers decreased by 11.8 percent, with the size of the labor force decreasing by 2.9 percent and the number of employed individuals decreasing by 1.8 percent.

Software Developers and Software Quality Assurance Analysts and Testers top the list as the most demanded occupation in Q2 2022, accounting for 4,077 job postings. Healthcare occupation group also continues to be heavily demanded in the city of Detroit. All five of the occupation groups experienced growth in employer demand since Q1 2022.

### Annual Labor Market Information

To date in 2022, the labor force in Detroit grew 4.1 percent over 2021, increasing by 10,036 individuals, for 2022 labor force figure of 251,991 individuals. Employment tracked proportionately to the labor force, reporting an increase of 3.3 percent, or 7,240 more workers, in the second quarter of 2022. The unemployment rate increased to 10.5 percent over the same period, an increase of 0.7 percentage points. As recovery from the COVID-19 pandemic continues, swings in employment and unemployment are anticipated.

### Annual Labor Force, Employment, Unemployment Rate 2012–2022



Data: BLS | Analysis: Workforce Intelligence Network

### Quarterly Employer Demand Overview

Between Q1 and Q2, employer demand has increased by 15.9 percent with an additional 6,119 unique postings for the City of Detroit. The second quarter had the highest recorded postings Q2 2021 and Q2 2022 with 44,562 postings, a 73.9 percent increase (11,651 postings) from Q2 2021. This steady increase in job postings is a positive indicator of economic recovery from the COVID-19 crisis.

### Average Quarterly Posting Analysis City of Detroit Q2 2021 - Q2 2022



# ANNUAL WORKFORCE INDICATORS

## Key Findings

Employer demand increases by 17.0 percent, a gain of 10,731 job postings since Q2 2022.

17%

Employer demand increased by 1.8 percent, a gain of 1,068 job postings since Q3.

### Bachelor's Degree

Most in-demand minimum education level during Q2.

In Q2, employment totaled

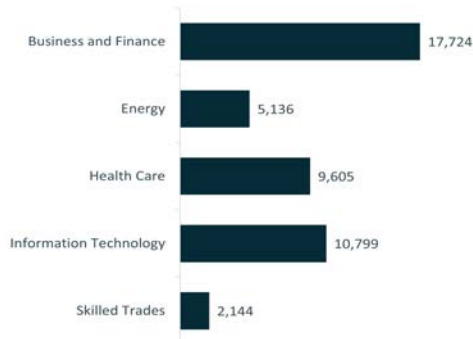
223,382

a decrease of 4,164 workers (1.8 percent) since Q1

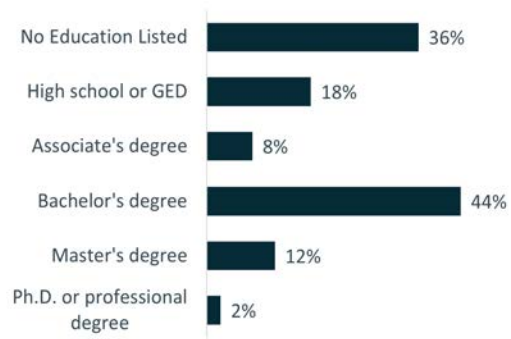
During Q2, there were 73,846 job postings, 10,731 more of the 63,115 postings made during Q1 2021 in the city of Detroit. Healthcare, Business and Finance, and Information Technology occupation groups were the highest posting employers in Q2. The top posted job occupations include Registered Nurses, Computer Occupation, All Other, Software Developers and Software Quality Assurance Analysts and Testers, and Personal Service Managers, all Other. More information about in-demand job postings can be found on page 7.

Of the 73,846 unique postings in the city of Detroit during Q2 2022, 32,270 (43.7 percent) required a college degree. An additional 8,713 postings (11.8 percent) required an advanced degree. The high demand for business and finance and information technology roles within the city, drives this high demand for college education.

### Top 5 Posting Occupation Groups Q2 2022



### Education Levels In-Demand Q2 2022



The city of Detroit has seen steady labor force and employment growth in Q1 2022 over Q2 2021. However, for Q2 2022, Labor Force participation declined by 7,491 individuals or 2.9 percent and employment decreased by 4,164 individuals or 1.8 percent from Q1 2022. On the other hand, unemployment figures showed fluctuation over each quarter from Q2 2021 to Q2 2022 and unemployment rate decreased by 1.0 percentage points from the previous quarter for an overall Q2 2022 unemployment rate of 10.0 percent. More information regarding this year's unemployment rate and other labor market indicators can be found on page 4.

### Quarterly Labor Market Data

|                   | 2nd Quarter 2021 | 3rd Quarter 2021 | 4th Quarter 2021 | 1st Quarter 2022 | 2nd Quarter 2022 | Change from 1st Quarter 2021 | Percent Change from 1st Quarter 2021 | Change from 2nd Quarter 2021 | Percent Change from 2nd Quarter 2021 |
|-------------------|------------------|------------------|------------------|------------------|------------------|------------------------------|--------------------------------------|------------------------------|--------------------------------------|
| Labor Force       | 237,463          | 245,070          | 248,037          | 255,737          | 248,245          | -7,491                       | -2.9%                                | 10,782                       | 4.5%                                 |
| Employment        | 214,189          | 220,331          | 225,179          | 227,546          | 223,382          | -4,164                       | -1.8%                                | 9,193                        | 4.3%                                 |
| Unemployment      | 23,274           | 24,739           | 22,859           | 28,190           | 24,863           | -3,327                       | -11.8%                               | 1,589                        | 6.8%                                 |
| Unemployment Rate | 9.8%             | 10.1%            | 9.2%             | 11.0%            | 10.0%            | -1.0%                        | na                                   | 0.2%                         | na                                   |

Note: Monthly data averaged by quarter Data: Bureau of Labor Statistics

Data: Emsi | Analysis: Workforce Intelligence Network



# LABOR FORCE, EMPLOYMENT, AND UNEMPLOYMENT

The labor force in the City of Detroit experienced growth year over year from 2015 through 2020 and peaked in 2020 with 262,129 workers. During the pandemic, the labor force marked a 7.7 percent decline to 241,955 but has since increased to 251,991, 4.1 percent over 2021. Employment showed a similar trend, with growth year after year from 2012 through 2019. The COVID-19 pandemic ushered in a significant drop, with employment dipping 10.2 percent in 2020 over 2019. In Q2 2022, employment increased to 225,464 or 3.3 percent over 2021. Meanwhile, the number of unemployed individuals in the City of Detroit grew by 2,796 workers, or 11.8 percent, between 2021 and Q2 2022.

|                   | 2012 Annual | 2013 Annual | 2014 Annual | 2015 Annual | 2016 Annual | 2017 Annual | 2018 Annual | 2019 Annual | 2020 Annual | 2021 Annual | 2022 YTD | Change from 2021 | Percent Change 2021 |
|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|------------------|---------------------|
| Labor Force       | 257,730     | 257,708     | 249,976     | 241,467     | 246,326     | 248,070     | 248,928     | 251,966     | 262,129     | 241,955     | 251,991  | 10,036           | 4.1%                |
| Employment        | 208,119     | 208,943     | 209,701     | 212,953     | 219,906     | 224,958     | 226,473     | 230,163     | 206,652     | 218,224     | 225,464  | 7,240            | 3.3%                |
| Unemployment      | 49,611      | 48,765      | 40,275      | 28,514      | 26,420      | 23,112      | 22,454      | 21,804      | 55,477      | 23,731      | 26,527   | 2,796            | 11.8%               |
| Unemployment Rate | 19.2%       | 18.9%       | 16.1%       | 11.8%       | 10.7%       | 9.3%        | 9.0%        | 8.7%        | 21.2%       | 9.8%        | 10.5%    | 0.7%             | n/a                 |

Data: Bureau of Labor Statistics

## CENSUS 2020 LABOR FORCE DEMOGRAPHICS

During 2020, there were 286,678 individuals in the labor force, meaning they were either working or looking for work. Employed workers make up 85.1 percent of the city's labor force. The highest unemployment rates in 2020 were seen in those aged 24 years old or younger, with 65.6 percent of unemployed individuals identifying as males compared to 55.5 percent of unemployed individuals identifying as female. Overall, males have a higher unemployment rate than females, at 17.1 percent and 12.9 percent respectively. Black or African American, Native American, and job seekers that identify as Two or More Races faced the most challenges in securing employment, with each group experiencing an unemployment rate of approximately 17 percent in 2020.

| Civilian Labor Force by Demographic Group |                      |                  |                    |                   |
|---|----------------------|------------------|--------------------|-------------------|
| Demographic Group                         | Civilian Labor Force | Total Employment | Total Unemployment | Unemployment Rate |
| <b>Total Population 16 +</b>              | 286,678              | 243,926          | 42,752             | 14.9%             |
| <b>Sex</b>                                |                      |                  |                    |                   |
| <b>Male 16+</b>                           | 136,777              | 113,394          | 23,383             | 17.1%             |
| <b>16-19</b>                              | 6,453                | 3,844            | 2,609              | 40.4%             |
| <b>20-24</b>                              | 16,893               | 12,647           | 4,246              | 25.1%             |
| <b>25-54</b>                              | 91,417               | 77,844           | 13,573             | 14.8%             |
| <b>55-64</b>                              | 17,247               | 14,794           | 2,453              | 14.2%             |
| <b>65 Plus</b>                            | 4,767                | 4,265            | 502                | 10.5%             |
| <b>Female 16+</b>                         | 149,901              | 130,532          | 19,369             | 12.9%             |
| <b>16-19</b>                              | 6,951                | 4,719            | 2,232              | 32.1%             |
| <b>20-24</b>                              | 18,097               | 13,857           | 4,240              | 23.4%             |
| <b>25-54</b>                              | 98,050               | 86,706           | 11,344             | 11.6%             |
| <b>55-64</b>                              | 19,692               | 18,480           | 1,212              | 6.2%              |
| <b>65 Plus</b>                            | 7,111                | 6,770            | 341                | 4.8%              |
| <b>Race</b>                               |                      |                  |                    |                   |
| <b>White</b>                              | 44,941               | 40,897           | 4,045              | 9.0%              |
| <b>Black / African</b>                    | 218,521              | 182,465          | 36,056             | 16.5%             |
| <b>Native American</b>                    | 953                  | 796              | 157                | 16.5%             |
| <b>Asian</b>                              | 5,819                | 5,353            | 465                | 8.0%              |
| <b>Native Hawaiian / Pacific Islander</b> | 49                   | 49               | 0                  | 0%                |
| <b>Some Other Race</b>                    | 9,894                | 8,994            | 900                | 9.1%              |
| <b>Two or More Races</b>                  | 6,595                | 5,500            | 1,095              | 16.6%             |
| <b>Ethnicity</b>                          |                      |                  |                    |                   |
| <b>Hispanic</b>                           | 20,688               | 18,433           | 2,255              | 10.9%             |

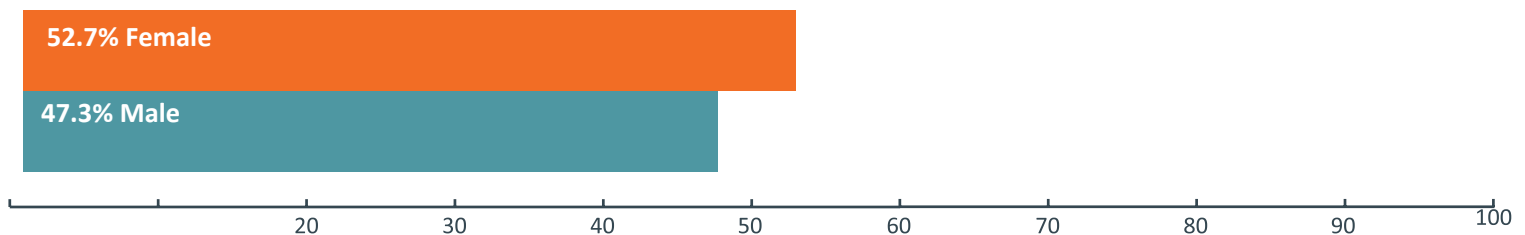
Data: American Community Survey 5-Year Estimates | Analysis: Workforce Intelligence Network

# POPULATION DEMOGRAPHICS

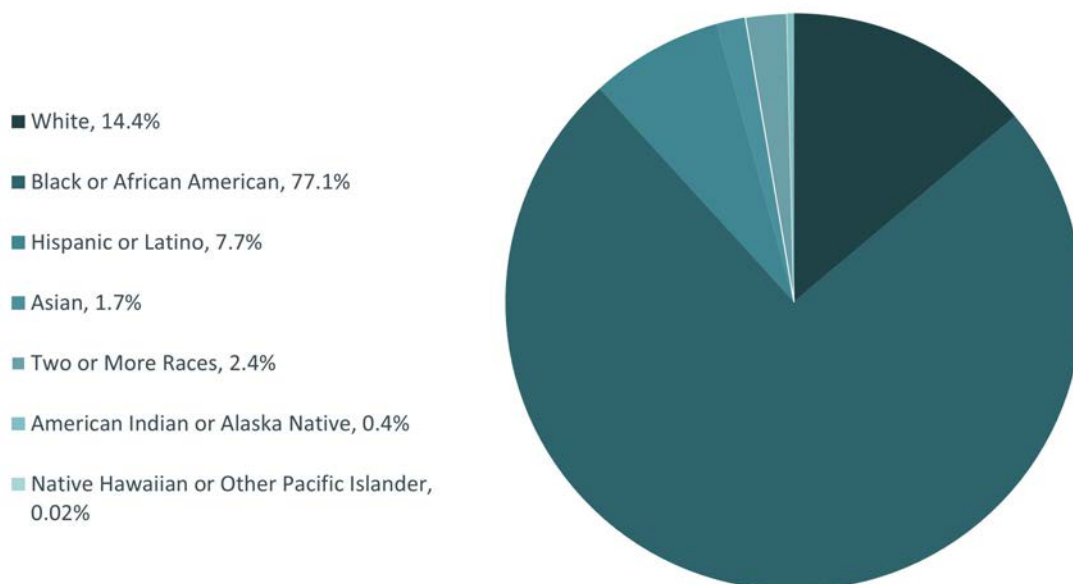
## 2020 Census Population

According to the Census Bureau 2020 ACS Five Year estimates, the City of Detroit had a population of 672,351 people. The sex of the populace was split almost evenly, with about 52.7 percent of the population identifying as female, and the other 47.3 percent identifying as male. The majority of the population identified as Black or African American (77.1 percent) with the second largest number of individuals identifying as White (14.4 percent). The city's age demographics skew younger than the surrounding region; 26.0 percent of the population was over the age of 54, compared to 35.0 percent under the age of 25, while 39.1 percent of the population fell between the ages of 25-54.

### Population Gender Demographics



### Population Race Demographics



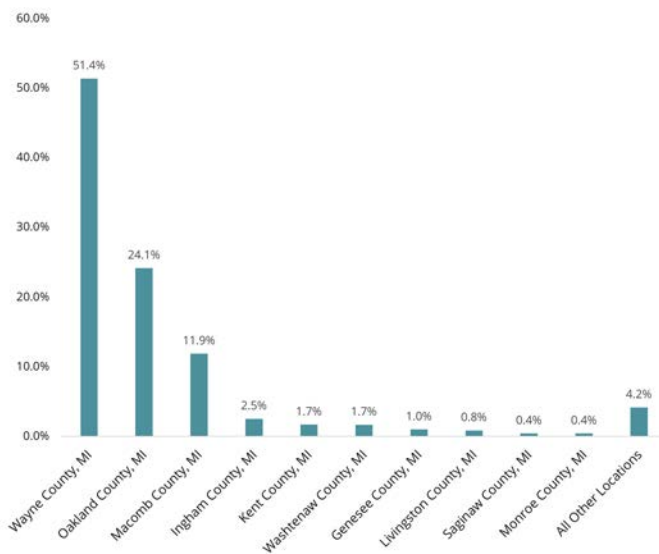
### Population Age Demographics



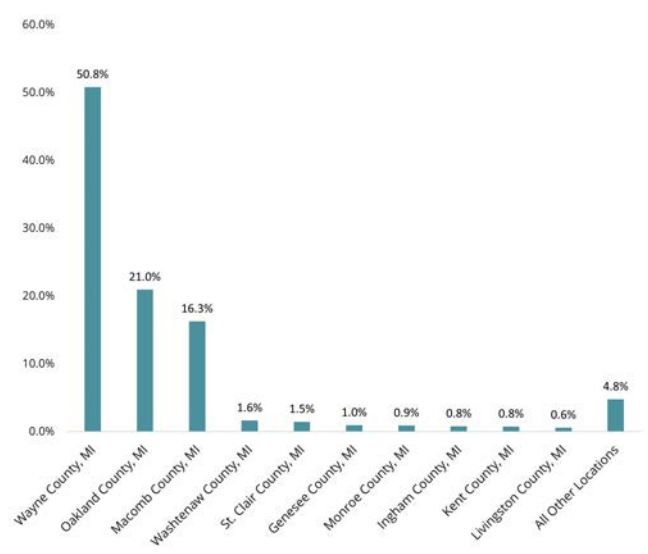
# REGIONAL COMMUTING PATTERNS

According to the most recent OnTheMap data set from the Census Bureau Detroit's 2019 workforce consisted of 195,233 residents. 31.7 percent of the residents also worked in the city, while the remaining 68.3 percent traveled outside for work. With 235,654 workers employed in the city during 2019 there were 73.7 percent living outside of the city and commuting in. While there is a higher percentage of both inbound and outbound commuters in Detroit than other areas of the WIN regions, Detroit is ultimately a net importer of jobs, with more workers commuting into the area for employment than leaving.

Where City of Detroit Residents Work

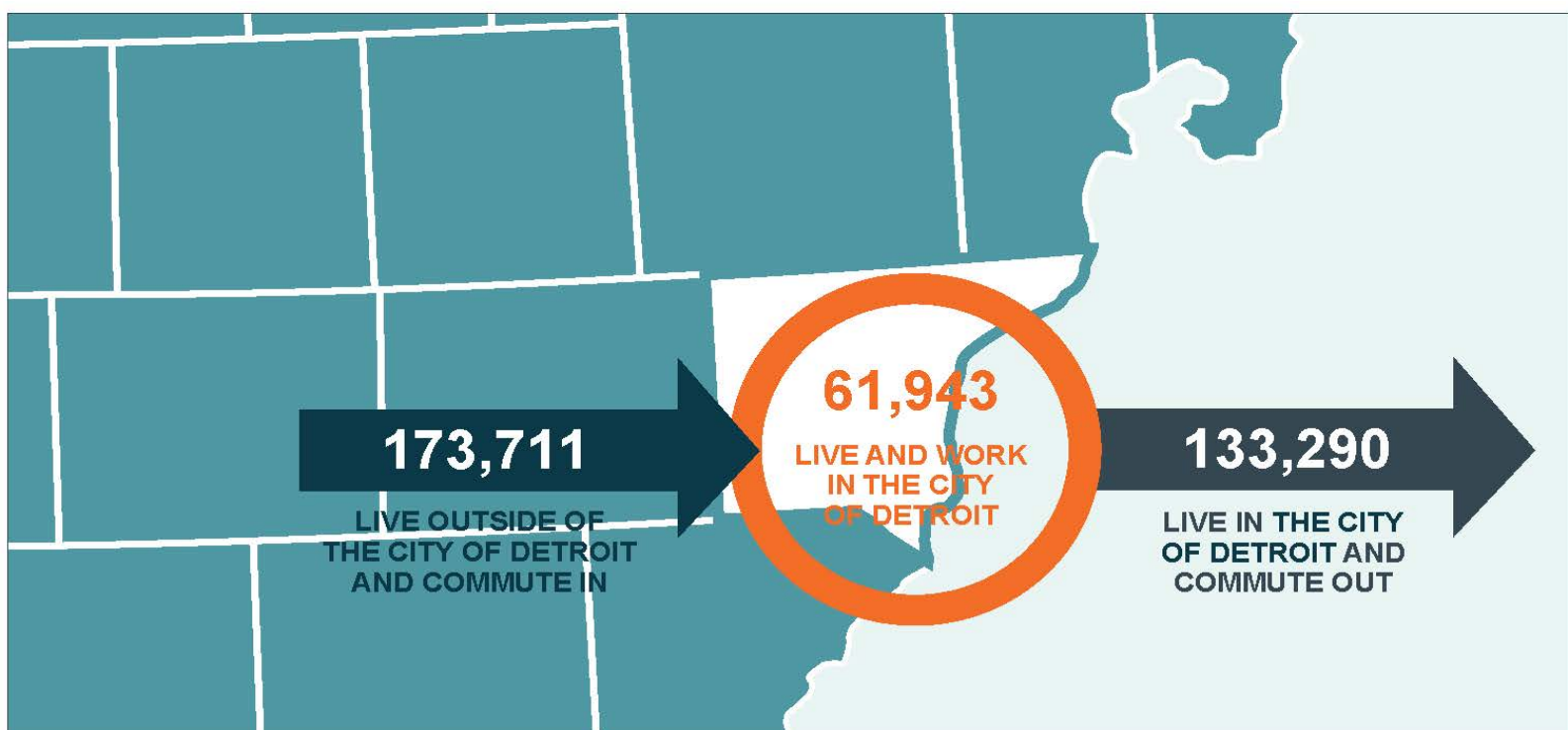


Where City of Detroit Workers Live



Source: U.S. Census OnTheMap, 2019  
Analysis: Workforce Intelligence Network

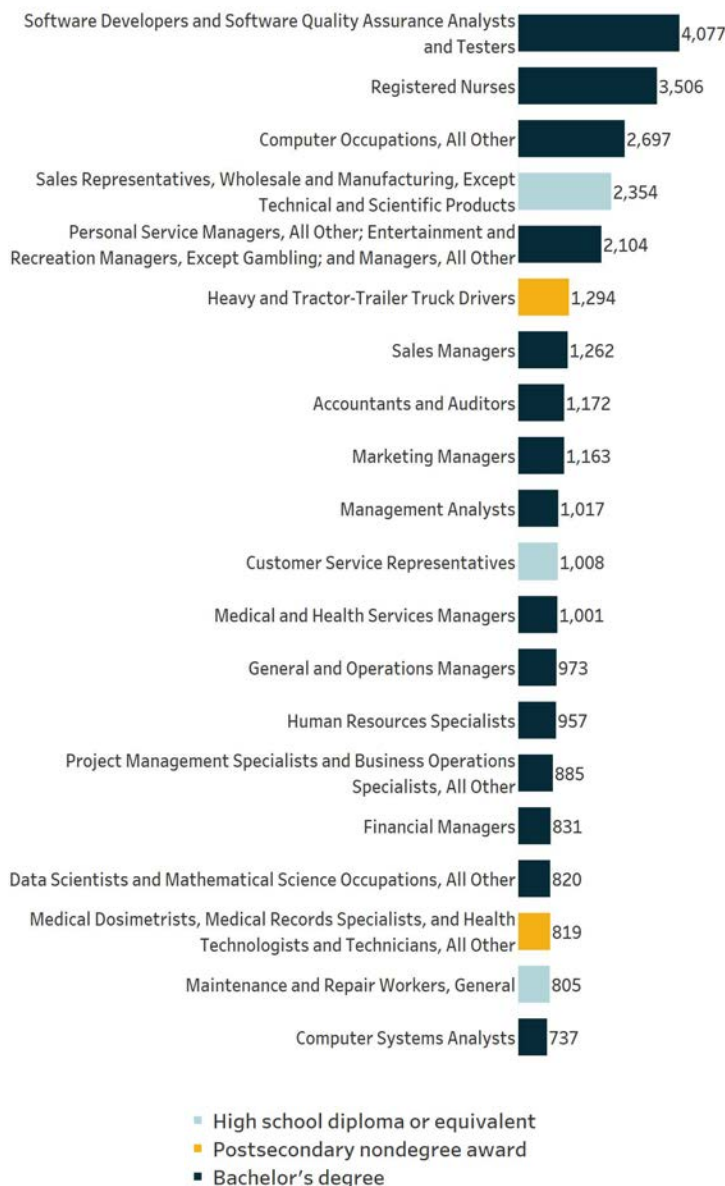
Source: U.S. Census OnTheMap, 2019  
Analysis: Workforce Intelligence Network



# TOP POSTED JOBS

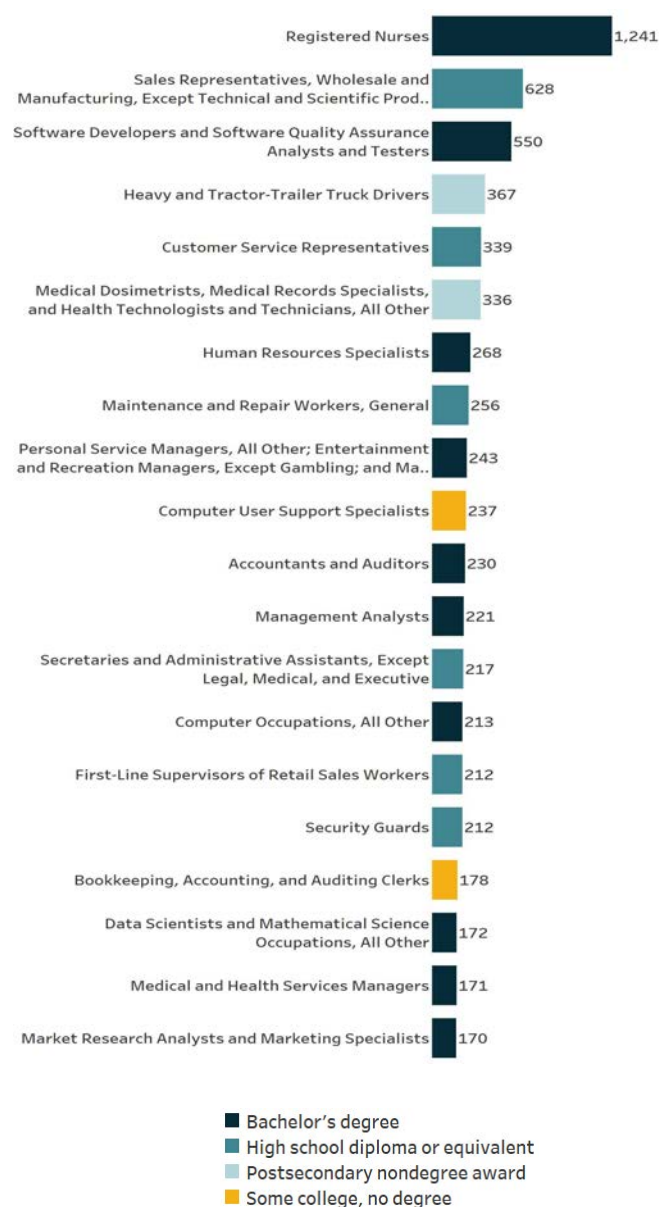
## Top Posted Jobs

Software Developers and Software Quality Assurance Analysts and Testers is the highest in-demand occupation during Q2, with 4,077 unique online job postings. Registered Nurses is the second largest occupation with 3,506 postings. Computer Occupations, All Other (2,697 postings) round out the top three occupations in Q2. The majority of these positions require a bachelor's degree, which is common in over half of the top 20 posted jobs for the city.



## Top Posted Entry-Level Jobs

Entry-level jobs, which usually require zero to two years of previous experience, account for 22.6 percent of postings in Detroit. Four of the top ten entry level occupations require a bachelor's degree, while the remaining six require a high school diploma, postsecondary non-degree award, or some college with no degree. Those who enter the workforce with a college degree can expect entry wages nearly double from those without. Registered Nurses were the top posted entry-level job with 1,241 postings requiring zero to two years of experience and a bachelor's degree.





# REAL-TIME DEMAND OVERVIEW

## Employer Demand Highlights

### Top Posting Employers\*

- Deloitte
- Henry Ford Health System
- Tenet Healthcare
- Ascension
- Accenture
- City Of Detroit
- United States Department of Veterans Affairs
- Tenet
- General Motors
- Comerica
- Delaware North
- Rocket Companies
- Little Caesars
- State Of Michigan
- Ally Financial
- Centene
- DTE Energy
- Beaumont Health
- MGM Resorts International
- KPMG

*\*Employer names are listed as they appear in online job postings.*

### In-Demand Technical Skills

- Marketing
- Nursing
- Cascading Style Sheets (CSS)
- Auditing
- Accounting
- Finance
- Computer Science
- WebKit
- Flexbox
- Data Analysis

### In-Demand Foundational Skills

- Communications
- Customer Service
- Management
- Leadership
- Operations
- Problem Solving
- Detail Oriented
- Sales
- Valid Driver's License
- Planning

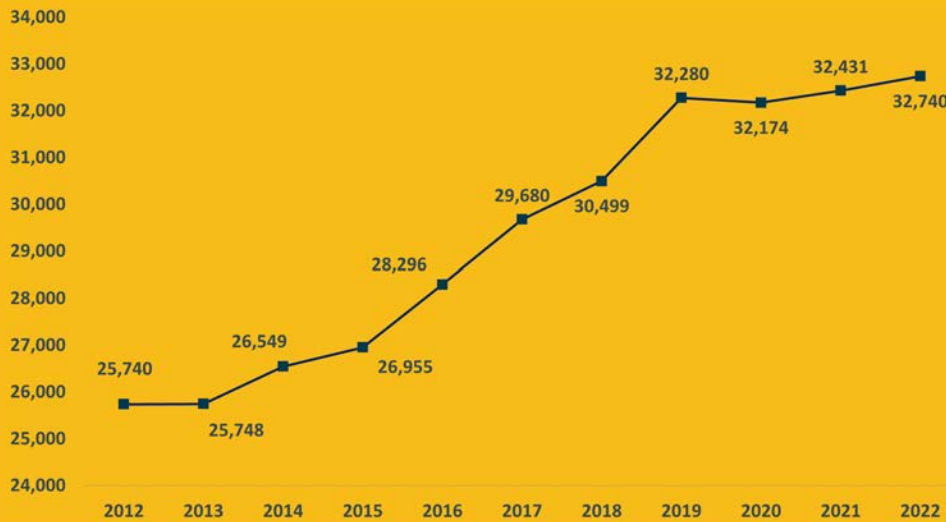
### Top In-Demand Qualifications

- Basic Life Support (BLS) Certification
- Advanced Cardiovascular Life Support (ACLS) Certification
- Licensed Practical Nurse
- Commercial Driver's License (CDL)
- Bachelor Of Science in Nursing (BSN)
- Bachelor Of Science in Business
- Certified Nursing Assistant
- Basic Cardiac Life Support
- Nurse Practitioner
- Master Of Business Administration (MBA)
- American Registry of Radiologic Technologists (ARRT) Certified
- ServSafe Certification
- Licensed Master Social Worker
- Certified Public Accountant
- Patient Care Technician

# BUSINESS AND FINANCE OCCUPATION GROUP

Jobs in the Business and Finance occupation group can be found in nearly every type of establishment throughout the city. These workers require strong mathematical and accounting abilities along with project management and planning skills. Workers in this occupation group are in high demand in Detroit.

Employment Over Time  
2012-2022

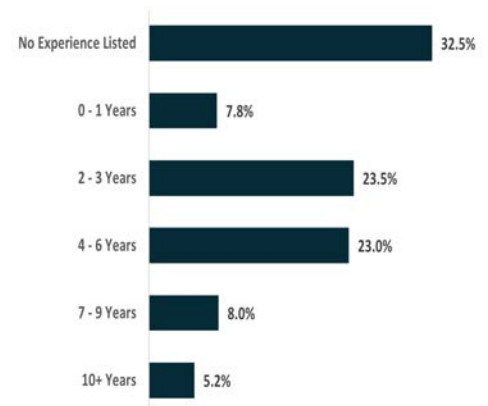
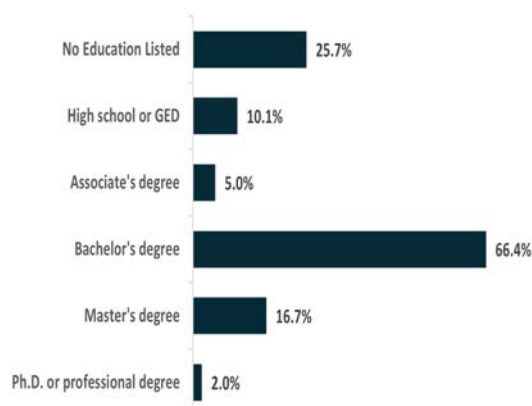


**309**  
**Business and  
Finance Workers**  
**1.0 % increase  
from 2021**



## Business and Finance Education and Experience

The Business and Finance occupation group offers high paying job opportunities for workers. A bachelor's degree is the most in-demand education level in Q2, as noted in 11,776 postings. A master's degree is the second most in-demand education level with 2,954 postings, while 4,561 postings do not specify any education level. Many business and finance occupation postings do not specify a required length of experience. Over half of the postings lists a requirement of two or more years of experience.



# BUSINESS AND FINANCE OCCUPATION GROUP

## Top Posted Jobs

The Business and Finance occupation group with the highest number of Q2 postings (2,354) was Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products. This was followed by Personal Service Managers, All Other; Entertainment and Recreation Managers, Except Gambling; and Managers, All Other, with 2,104 postings. While most of the top jobs typically require a bachelor's degree, the highest-posting occupation group, Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products, and Insurance Sales Agents (206 postings), both require a high school diploma and offer moderate on-the-job training for those without prior experience.



# BUSINESS AND FINANCE OCCUPATION GROUP

## Wage Overview

For job seekers able to obtain the required education, Business and Finance occupations offer lucrative opportunities. The top posted occupation, Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products, offers median hourly wages of \$33.41 (\$69,492 annually), while Sales Managers have a median hourly wage of \$71.58 (\$148,886 annually). Additional experience may lead to a role as a Marketing or Financial Manager, with median hourly wages at \$69.04 (\$143,603 annually). Human Resources Specialists provided the lowest median hourly wage for the top posted jobs in this occupation group at \$29.81, which is still significantly above the state median of \$21.73.

### Wage Overview for Top Posted Business and Finance Jobs in Q2 2022

| Occupation Code | Occupation Name   | 10th Percentile Wages | 25th Percentile Wages | Median Wages | 75th Percentile Wages | 90th Percentile Wages |
|-----------------|---|-----------------------|-----------------------|--------------|-----------------------|-----------------------|
| 41-4012         | Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products                          | \$14.19               | \$20.99               | \$33.41      | \$49.06               | \$65.06               |
| 11-9198         | Personal Service Managers, All Other; Entertainment and Recreation Managers, Except Gambling; and Managers, All Other | \$30.85               | \$42.65               | \$57.16      | \$71.95               | \$92.20               |
| 11-2022         | Sales Managers  | \$40.31               | \$55.59               | \$71.58      | \$88.78               | \$133.79              |
| 13-2011         | Accountants and Auditors  | \$24.32               | \$29.82               | \$37.75      | \$49.26               | \$65.37               |
| 11-2021         | Marketing Managers  | \$38.14               | \$52.83               | \$69.04      | \$85.79               | \$121.40              |
| 13-1111         | Management Analysts   | \$28.80               | \$35.40               | \$43.75      | \$54.82               | \$68.53               |
| 11-1021         | General and Operations Managers   | \$21.98               | \$33.79               | \$54.57      | \$84.85               | \$117.35              |
| 13-1071         | Human Resources Specialists   | \$17.49               | \$22.43               | \$29.81      | \$39.20               | \$50.46               |
| 13-1198         | Project Management Specialists and Business Operations Specialists, All Other   | \$21.39               | \$27.95               | \$38.23      | \$52.36               | \$64.97               |
| 11-3031         | Financial Managers  | \$41.74               | \$52.18               | \$66.91      | \$84.30               | \$129.20              |

### In-Demand Technical Skills

- Marketing
- Finance
- Accounting
- Auditing
- Business Development

### In-Demand Foundational Skills

- Communications
- Management
- Sales
- Leadership
- Operations

### In-Demand Certifications

- Master Of Business Administration (MBA)
- Bachelor Of Science in Business
- Certified Public Accountant
- Project Management Professional Certification
- Bachelor Of Science in Business Administration

### In-Demand Education Level\*

- High School Diploma: 10.1%
- Associate Degree: 5.0%
- Bachelor's Degree: 66.4%
- Master's Degree: 16.7%

### Top Posting Employers

- Deloitte
- PricewaterhouseCoopers
- KPMG
- Microsoft
- Accenture
- VMware
- General Motors
- Ally Financial
- DTE Energy
- GPAC

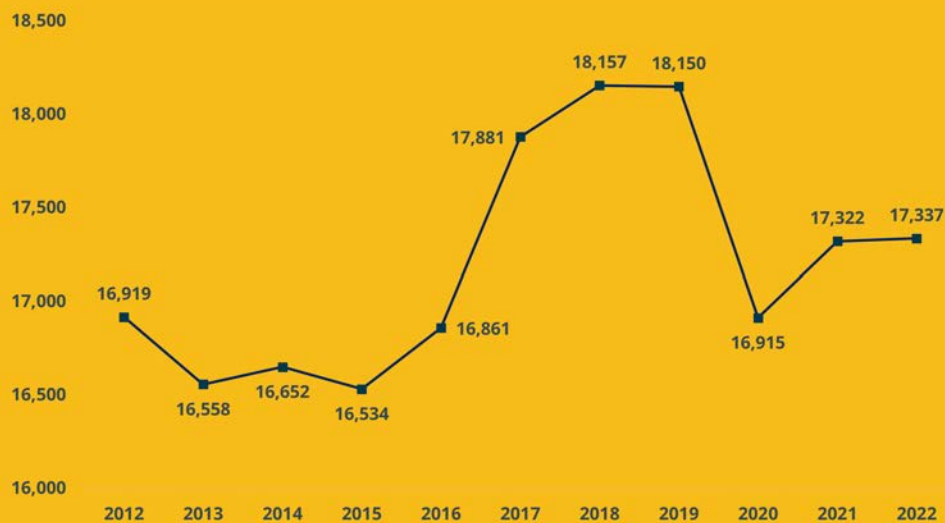
*\*Not all job postings indicate the required educational attainment level; the percentages indicated may not equal 100 percent.*



# ENERGY OCCUPATION GROUP

Energy-related occupations include jobs in engineering, science, mining, and extraction. Workers in this field have a range of skills related to keeping businesses and homes powered. Energy companies employ workers in a variety of occupations, many of which are also included in other WIN occupation groups. Posting data referenced in this section pertains only to job postings from energy-related businesses.

Employment Over Time  
2012-2022

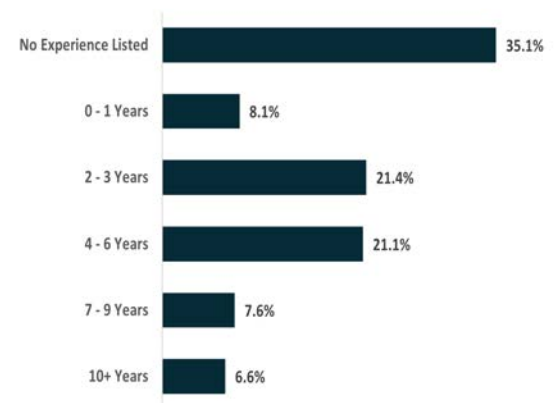
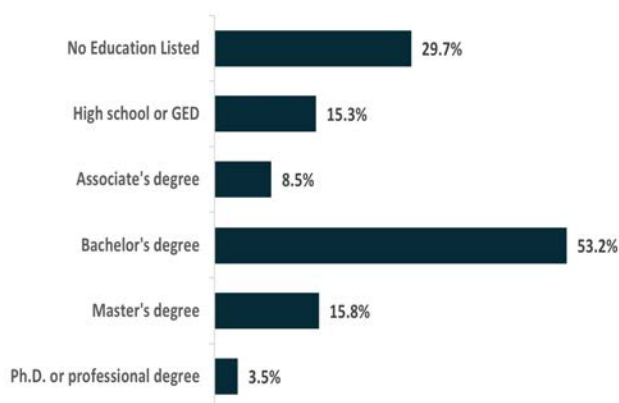


15  
Energy Workers  
Slight decrease  
from 2021



## Energy Education and Experience

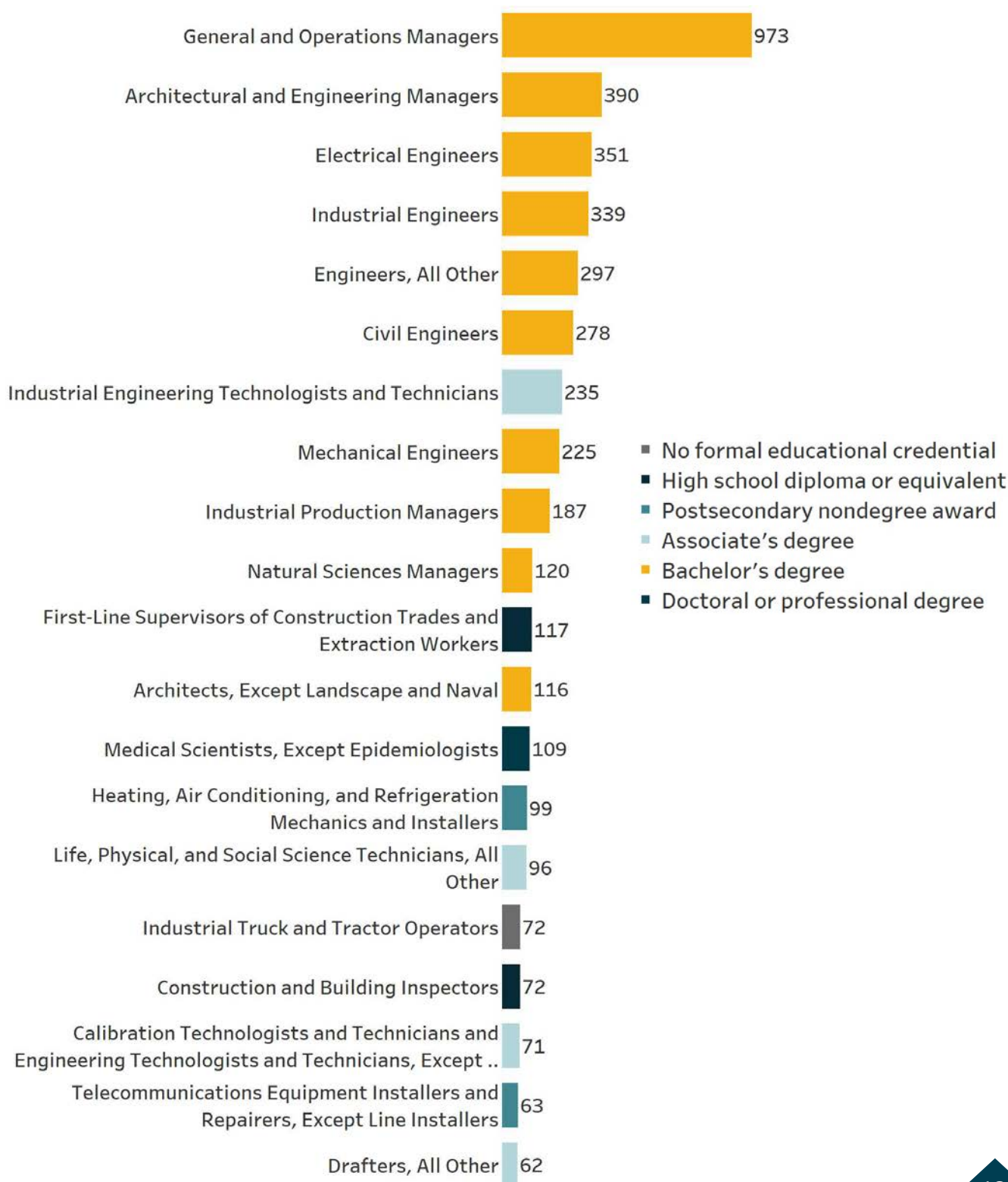
The Energy occupation group requires a specialized workforce with specific skills. A bachelor's degree is the most in-demand education level in Q2 with 53.2 percent of 2,730 postings. A master's degree is the second most in-demand education level with 15.8 percent, while 3.5 percent require a Ph.D. The amount of experience required varies widely from none to over ten years. Even many energy occupation postings do not request any specific experience.



# ENERGY OCCUPATION GROUP

## Top Posted Jobs

Most high-demand Energy occupations are engineering positions requiring a bachelor's degree. General and Operations Managers has emerged as the highest in-demand Energy occupation in Q2 with 973 postings. Other top posted jobs requiring a bachelor's degree include Architectural and Engineering Managers (390 postings) and Electrical Engineers (351 postings). First-line supervisors of construction trades and Extraction workers (117 postings) are required to hold a high school diploma or equivalent and may receive moderate to long-term on-the-job training in lieu of previous experience.



## ENERGY OCCUPATION GROUP

## Wage Overview

High demand for engineers and managers in the energy field provides lucrative opportunities for job seekers able to obtain the required educational level. The top posted energy job, General and Operations Managers, offers a median hourly wage of \$54.57 (\$113,506 annually). Construction- and technician-focused positions generally have shorter educational requirements and pay higher median wages than similar occupations in other industries.

## Wage Overview for Top Posted Energy Jobs in Q2 2022

| Occupation Code | Occupation Name                                      | 10th Percentile Wages | 25th Percentile Wages | Median Wages | 75th Percentile Wages | 90th Percentile Wages |
|-----------------|--|-----------------------|-----------------------|--------------|-----------------------|-----------------------|
| 11-1021         | General and Operations Managers                      | \$21.98               | \$33.79               | \$54.57      | \$84.85               | \$117.35              |
| 11-9041         | Architectural and Engineering Managers               | \$48.21               | \$56.99               | \$67.53      | \$79.44               | \$92.57               |
| 17-2071         | Electrical Engineers                                 | \$31.08               | \$37.14               | \$45.65      | \$55.50               | \$64.38               |
| 17-2112         | Industrial Engineers                                 | \$31.90               | \$37.84               | \$46.45      | \$55.98               | \$63.31               |
| 17-2199         | Engineers, All Other                                 | \$25.34               | \$33.88               | \$42.30      | \$56.16               | \$66.54               |
| 17-2051         | Civil Engineers                                      | \$24.97               | \$29.04               | \$34.97      | \$42.49               | \$49.94               |
| 17-3026         | Industrial Engineering Technologists and Technicians | \$19.41               | \$23.47               | \$28.57      | \$35.57               | \$42.35               |
| 17-2141         | Mechanical Engineers                                 | \$31.70               | \$36.46               | \$44.62      | \$55.34               | \$64.32               |
| 11-3051         | Industrial Production Managers                       | \$34.06               | \$44.21               | \$56.74      | \$71.68               | \$89.16               |
| 11-9121         | Natural Sciences Managers                            | \$29.94               | \$45.81               | \$57.79      | \$74.54               | \$93.65               |

## In-Demand Technical Skills

- Construction
- Auditing
- Computer Science
- Automation
- Marketing

## In-Demand Foundational Skills

- Communications
- Management
- Operations
- Leadership
- Problem Solving

## In-Demand Certifications

- Professional Engineer
- Master Of Business Administration (MBA)
- Licensed Professional Engineer
- Bachelor Of Science in Business
- Engineer in Training

## In-Demand Education Level\*

- High School Diploma: 15.3%
- Associate Degree: 8.5%
- Bachelor's Degree: 53.2%
- Master's Degree: 15.8%

## Top Posting Employers

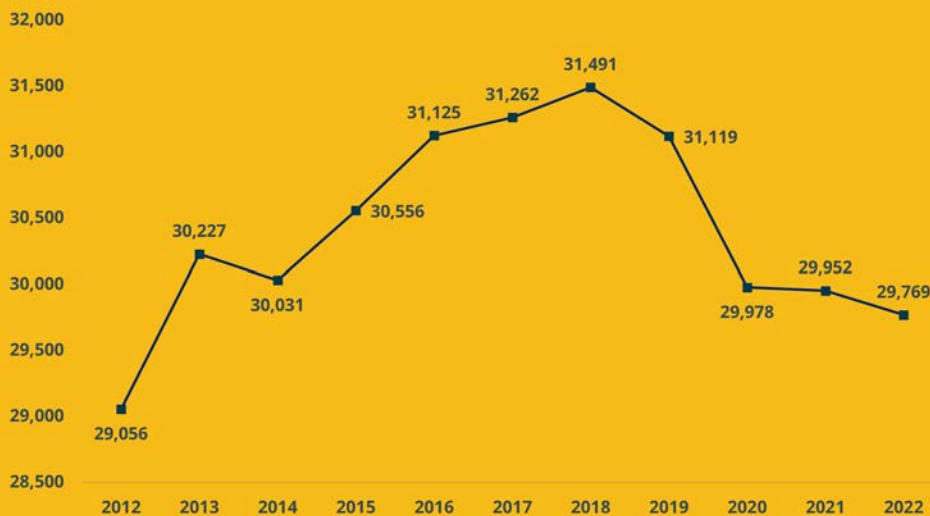
- DTE Energy
- General Motors
- Deloitte
- GPAC
- Microsoft
- American Axle & Manufacturing
- Henry Ford Health System
- VMware
- Actalent
- PricewaterhouseCoopers

*\*Not all job postings indicate the required educational attainment level; the percentages indicated may not equal 100 percent.*

# HEALTHCARE OCCUPATION GROUP

The Healthcare occupation group includes jobs related to healthcare support and practitioners. Employment in this group has been increasing consistently, with more healthcare workers needed to care for Michigan's aging population. Annually, there are about 23,600 job openings for these positions across southeast Michigan, and this is projected to continue increasing.

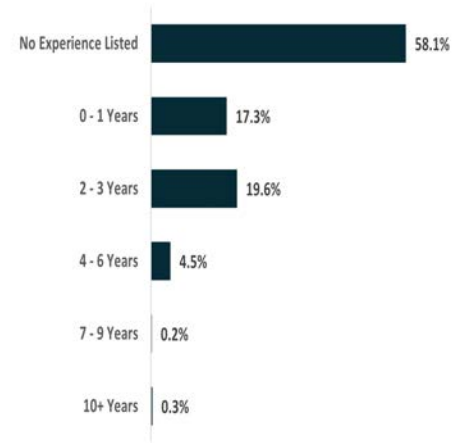
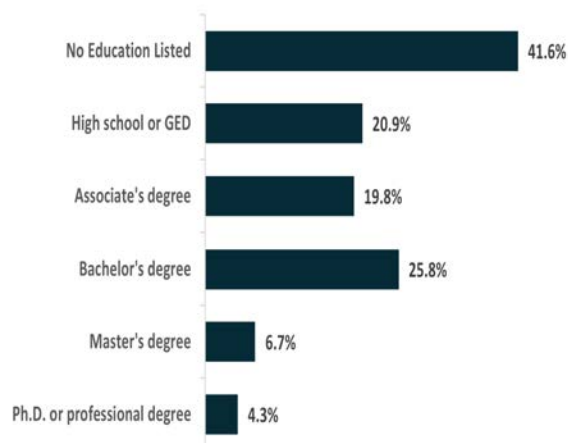
Employment Over Time  
2012-2022



**183**  
**Healthcare**  
**Workers**  
**0.6%**  
**Decrease**  
**from 2021**

## Healthcare Education and Experience

The Healthcare occupation group offers many job opportunities for active job seekers at all experience levels. A bachelor's degree is the most in-demand education level in Q2, with 2,474 postings. A high school diploma or equivalent is the second most in-demand education level (2,010 postings). Many postings from this occupation group do not request any specific experience and education level.

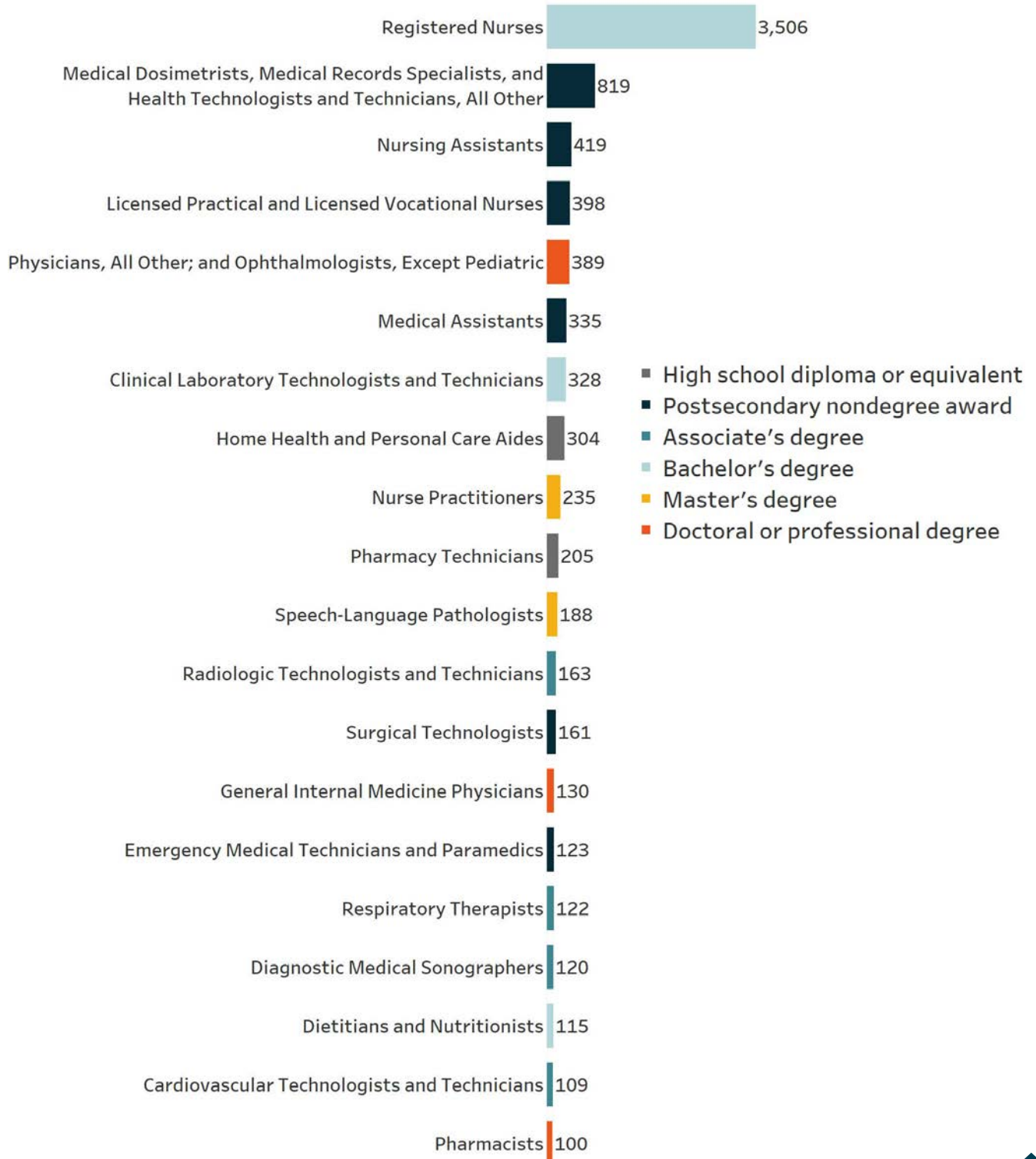




# HEALTHCARE OCCUPATION GROUP

## Top Posted Jobs

Registered Nurses were the highest in-demand Healthcare occupation with 3,506 total postings, a number significantly higher than all of the other occupations. A bachelor's degree is the most in-demand education level amongst healthcare occupations, indicated in 26 percent of postings. A high school diploma or equivalent accounts for 21 percent of posting requirements. Other top posted jobs include Medical Dosimetrists, Medical Records Specialists, and Health Technologists and Technicians, All Other (819 postings), Nursing Assistants (419 postings), Licensed Practical and Licensed Vocational Nurses (398) and Physicians, All Other; and Ophthalmologists, Except Pediatric (389).



# HEALTHCARE OCCUPATION GROUP

## Wage Overview

Wages in Healthcare are generally higher than the state median hourly wage of \$21.73, with pay increasing in line with required education, training, and experience for Healthcare's top jobs. Registered Nurses, the top posted healthcare job in Q2, offers a median hourly wage of \$37.15 (\$77,272 annually). Although many positions require an associate degree or higher, there are several jobs above the state minimum wage open to those with a high school diploma or equivalent.

### Wage Overview for Top Posted Healthcare Jobs in Q2 2022

| Occupation Code | Occupation Name  | 10th Percentile Wages | 25th Percentile Wages | Median Wages | 75th Percentile Wages | 90th Percentile Wages |
|-----------------|--|-----------------------|-----------------------|--------------|-----------------------|-----------------------|
| 29-1141         | Registered Nurses  | \$27.88               | \$31.55               | \$37.15      | \$43.13               | \$49.51               |
| 29-2098         | Medical Dosimetrists, Medical Records Specialists, and Health Technologists and Technicians, All Other | \$14.56               | \$17.39               | \$21.68      | \$29.10               | \$36.19               |
| 31-1131         | Nursing Assistants   | \$12.54               | \$13.74               | \$15.55      | \$17.89               | \$19.44               |
| 29-2061         | Licensed Practical and Licensed Vocational Nurses  | \$20.96               | \$24.13               | \$27.04      | \$29.67               | \$31.44               |
| 29-1228         | Physicians, All Other; and Ophthalmologists, Except Pediatric  | \$26.33               | \$28.36               | \$31.81      | \$103.63              | \$117.60              |
| 31-9092         | Medical Assistants   | \$13.62               | \$15.34               | \$17.58      | \$19.56               | \$22.35               |
| 29-2018         | Clinical Laboratory Technologists and Technicians  | \$15.08               | \$18.18               | \$27.44      | \$34.88               | \$39.31               |
| 31-1128         | Home Health and Personal Care Aides  | \$10.66               | \$11.28               | \$12.33      | \$14.24               | \$16.42               |
| 29-1171         | Nurse Practitioners  | \$43.30               | \$47.02               | \$53.40      | \$61.72               | \$69.01               |
| 29-2052         | Pharmacy Technicians   | \$11.64               | \$13.95               | \$17.05      | \$20.06               | \$23.55               |

### In-Demand Technical Skills

- Nursing
- Nursing Care
- Patient Preparation
- Cardiopulmonary Resuscitation (CPR)
- Medical Records

### In-Demand Foundational Skills

- Communications
- Leadership
- Management
- Teaching
- Customer Service

### In-Demand Certifications

- Basic Life Support (BLS) Certification
- Bachelor Of Science in Nursing (BSN)
- Advanced Cardiovascular Life Support (ACLS) Certification
- Licensed Practical Nurse
- Certified Nursing Assistant

### In-Demand Education Level\*

- High School Diploma: 20.9%
- Associate Degree: 19.8%
- Bachelor's Degree: 25.8%
- Master's Degree: 6.7%
- Ph.D. Or professional Degree: 4.3%

### Top Posting Employers

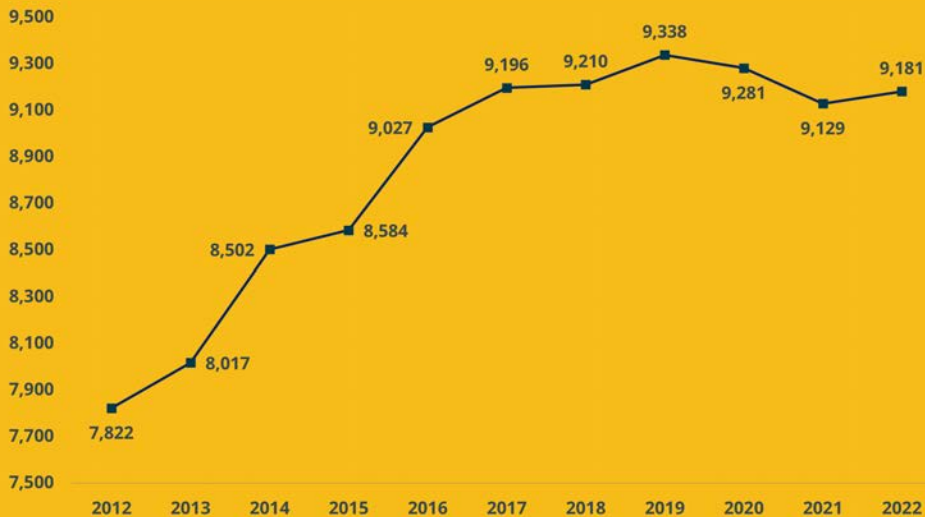
- Henry Ford Health System
- Tenet Healthcare
- Tenet
- Ascension
- United States Department of Veterans Affairs
- Regional West Medical Center
- Dmc Sinai Grace Hospital
- Beaumont Health
- West Valley Hospital
- Dmc Children's Hospital of Michigan

*\*Not all job postings indicate the required educational attainment level; the percentages indicated may not total 100 percent.*

# INFORMATION TECHNOLOGY OCCUPATION GROUP

Information Technology (IT) jobs include occupations that are associated with entry-level, technical, and professional careers related to the design, development, support and management of hardware, software, multimedia, and systems integration services. While the Information Technology group does not currently employ as many individuals as the other groups here, it is quickly growing.

Employment Over Time  
2012-2022

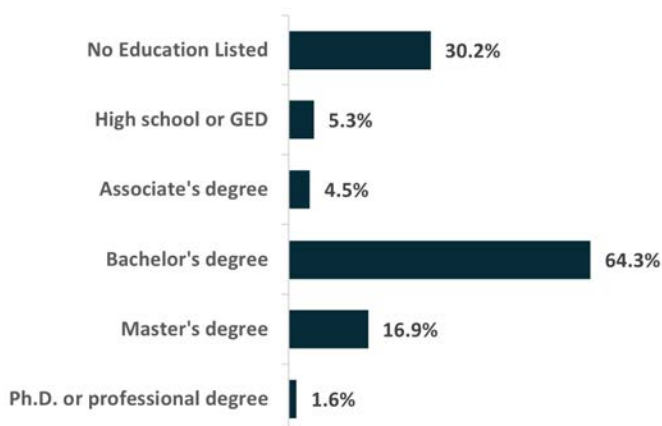


**52 Information  
Technology  
Workers**  
**0.6% Increase  
from 2021**



## Information Technology Education and Experience

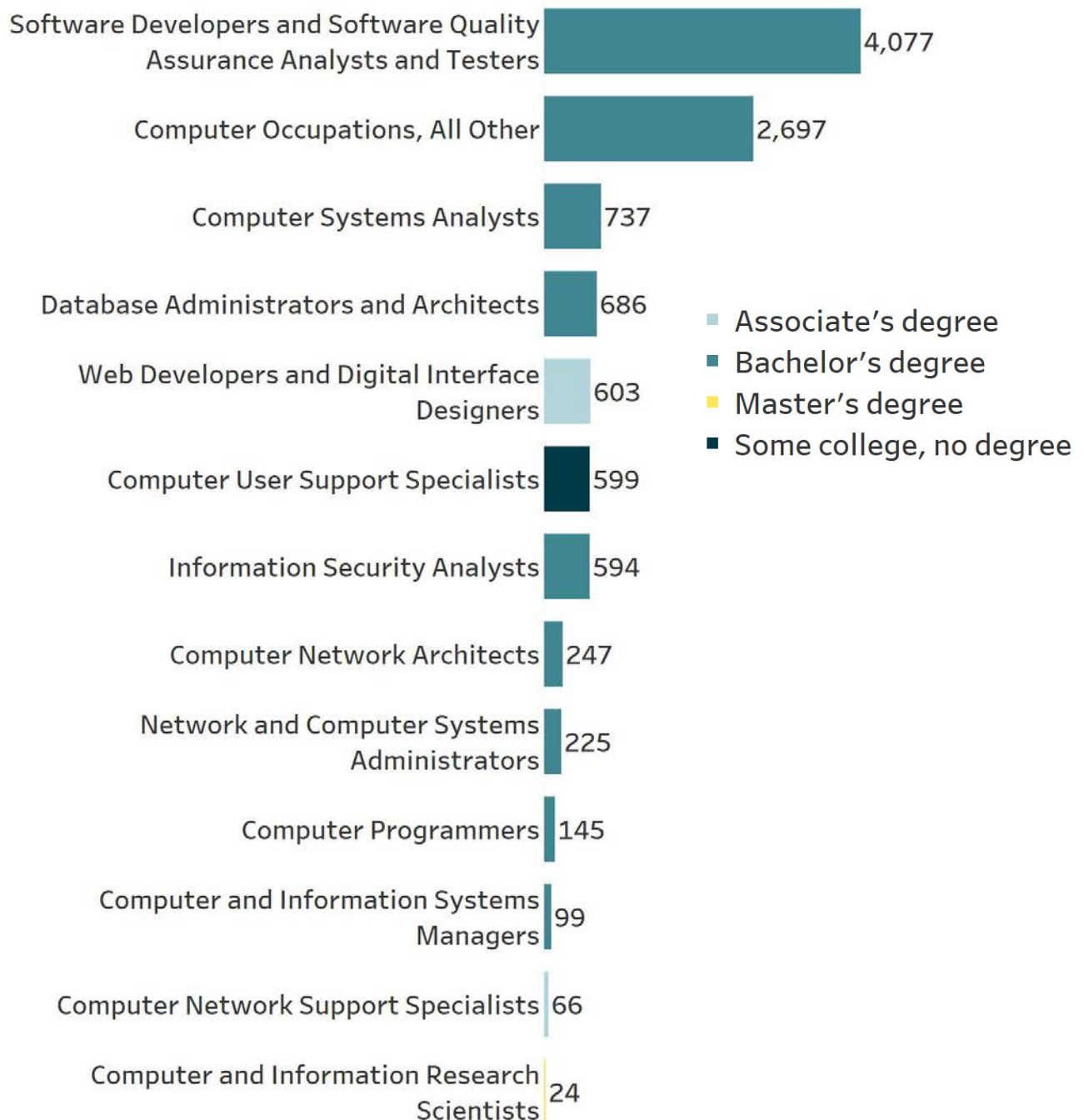
The Information Technology occupation group offers ample opportunities for active job seekers, with 13,275 postings in Q2. A bachelor's degree is the most in-demand education level, with a master's degree the second most required education level. Many IT occupation postings were open to workers with two to three years of experience, with 2,877 postings. Workers with four to six years of experience are also heavily in-demand with 2,402. Although 3,101 postings do not request any specific experience level, 52 postings requested workers with zero to one year of experience.



# INFORMATION TECHNOLOGY OCCUPATION GROUP

## Top Posted Jobs

Software Developers and Software Quality Assurance Analysts and Testers were the highest in-demand IT occupation in Q2, with 4,077 total postings. Computer Occupations, All Other, which encompasses emerging occupations such as Database Architects, Web Administrators, and Search Marketing Strategists was next most in-demand with 2,697 total postings. While most of the top jobs require a bachelor's degree, Web Developers and Digital Interface Designers (603 postings) typically require an associate degree while Computer User Support Specialists (599 postings) prefer some college education, but do not require a degree.





# INFORMATION TECHNOLOGY OCCUPATION GROUP

## Wage Overview

Most IT jobs offer high wages, making for a lucrative opportunity for job seekers able to obtain the additional education related to these jobs. Software Developers and Software Quality Assurance Analysts and Testers, the top posted IT job in Q2, offers a median hourly wage of \$47.79 (\$99,403 annually). Computer User Support Specialists, which requires some college, no degree, offers a median wage of \$20.92 (\$43,513 annually).

### Wage Overview for Top Posted Information Technology Jobs in Q2 2022

| Occupation Code | Occupation Name   | 10th Percentile Wages | 25th Percentile Wages | Median Wages | 75th Percentile Wages | 90th Percentile Wages |
|-----------------|---|-----------------------|-----------------------|--------------|-----------------------|-----------------------|
| 15-1256         | Software Developers and Software Quality Assurance Analysts and Testers | \$29.56               | \$37.69               | \$47.79      | \$59.31               | \$69.06               |
| 15-1299         | Computer Occupations, All Other   | \$21.39               | \$29.53               | \$41.04      | \$52.76               | \$63.84               |
| 15-1211         | Computer Systems Analysts   | \$31.78               | \$38.72               | \$48.68      | \$60.96               | \$73.59               |
| 15-1245         | Database Administrators and Architects                                  | \$27.03               | \$33.14               | \$46.81      | \$59.36               | \$67.73               |
| 15-1257         | Web Developers and Digital Interface Designers                          | \$18.59               | \$26.26               | \$36.25      | \$45.70               | \$55.35               |
| 15-1232         | Computer User Support Specialists                                       | \$15.17               | \$17.50               | \$20.92      | \$28.70               | \$36.05               |
| 15-1212         | Information Security Analysts   | \$29.75               | \$38.10               | \$48.71      | \$60.22               | \$69.99               |
| 15-1241         | Computer Network Architects   | \$30.17               | \$44.07               | \$57.59      | \$69.32               | \$81.65               |
| 15-1244         | Network and Computer Systems Administrators                             | \$27.27               | \$34.34               | \$41.97      | \$51.41               | \$61.36               |
| 15-1251         | Computer Programmers  | \$22.18               | \$26.49               | \$37.58      | \$49.40               | \$60.96               |

### In-Demand Technical Skills

- Computer Science
- Agile Methodology
- SQL (Programming Language)
- Amazon Web Services
- Software Development

### In-Demand Foundational Skills

- Communications
- Management
- Leadership
- Problem Solving
- Troubleshooting (Problem Solving)

### In-Demand Certifications

- Certified Information Systems Security Professional
- Project Management Professional Certification
- Certified Information System Auditor (CISA)
- Master Of Business Administration (MBA)
- Secret Clearance

### In-Demand Education Level\*

- High School Diploma: 5.3%
- Associate Degree: 4.5%
- Bachelor's Degree: 64.3%
- Master's Degree: 16.9%
- Ph.D. or professional Degree: 1.6%

### Top Posting Employers

- Deloitte
- Accenture
- Microsoft
- General Dynamics
- General Motors
- PricewaterhouseCoopers
- Strategic Staffing Solutions
- VMware
- Amazon
- CyberCoders

*\*Not all job postings indicate the required educational attainment level; the percentages indicated may not total 100 percent.*

# SKILLED TRADES AND TECHNICIANS OCCUPATION GROUP

The Skilled Trades and Technicians occupation group includes jobs related to advanced manufacturing. Southeast Michigan has one of the highest demands for skilled trades labor, such as CNC machinists and welders, in the country.

*NOTE: Skilled trades related to construction and assembly are not included in this cluster, as the focus is on advanced manufacturing only.*

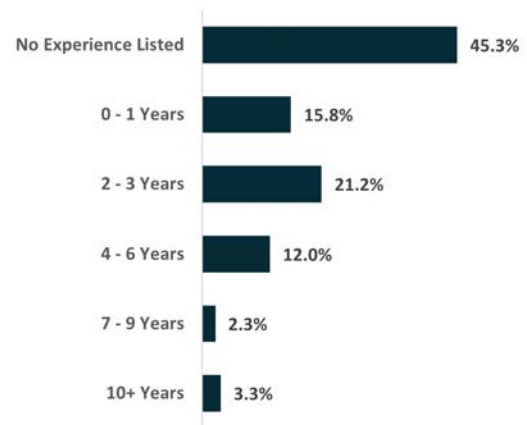
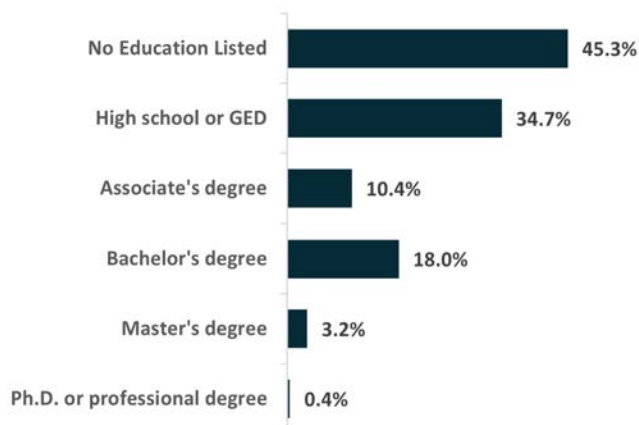
**Employment Over Time**  
2012-2022



**70 Skilled  
Trades Workers**  
**0.7% Decrease**  
**from 2021**

## Skilled Trades Education and Experience

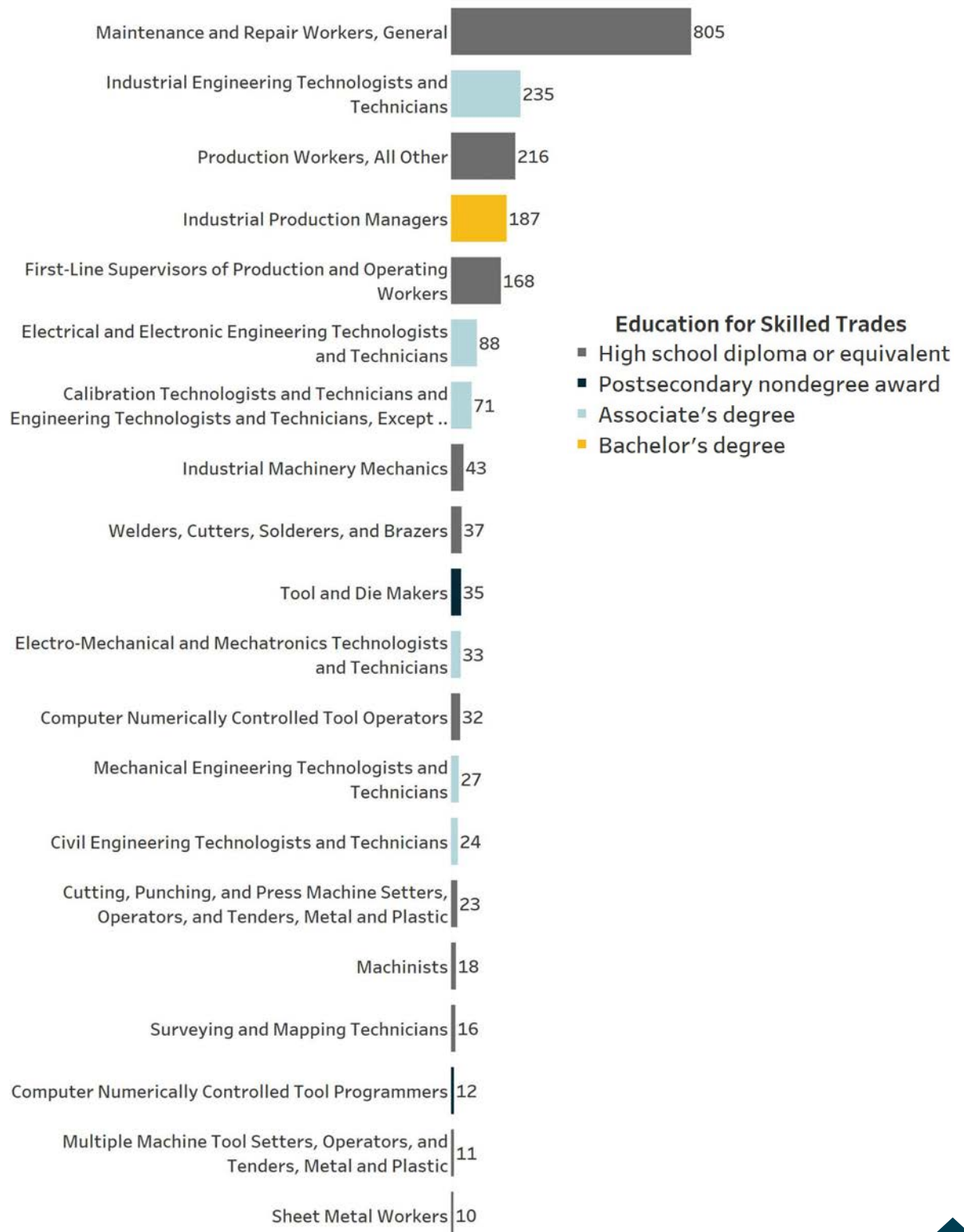
The Skilled Trades occupation group offers many opportunities for active job seekers in southeast Michigan. A high school diploma or equivalent was the most in-demand education level (743 postings), while a bachelor's degree was the second most in-demand education level (386 postings). Many Skilled Trades occupation postings were open to workers with zero to three years of experience.



# SKILLED TRADES AND TECHNICIANS OCCUPATION GROUP

## Top Posted Jobs

Maintenance and Repair Workers, General was the highest in-demand Skilled Trades occupation during Q2 (805 postings). Other top posted jobs include Industrial Engineering Technologists and Technicians (235 postings), Production Workers, All Other (216 postings), Industrial Production Managers (187 postings), and First-Line Supervisors of Production and Operating Workers (168 postings). The majority of this occupation group's top posted jobs required a high school diploma or equivalent and offered moderate to long-term on-the-job training in lieu of experience.



# SKILLED TRADES AND TECHNICIANS OCCUPATION GROUP

## Wage Overview

Seven of the top ten in-demand Skilled Trades occupation offer median hourly wages above \$20. Maintenance and Repair Workers, General, the top posted Skilled Trades job in Q2, offered a median hourly wage of \$18.86, (\$39,228 annually). Job seekers can expect to see a significant shift in wages based on experience and education requirements: Industrial Production Managers requires an additional five years or more of work experience and offers a median hourly wage of \$56.74 (\$118,019 annually).

### Wage Overview for Top Posted Skilled Trades Jobs in Q2 2022

| Occupation Code | Occupation Name   | 10th Percentile Wages | 25th Percentile Wages | Median Wages | 75th Percentile Wages | 90th Percentile Wages |
|-----------------|---|-----------------------|-----------------------|--------------|-----------------------|-----------------------|
| 49-9071         | Maintenance and Repair Workers, General   | \$12.71               | \$15.41               | \$18.86      | \$24.85               | \$30.77               |
| 17-3026         | Industrial Engineering Technologists and Technicians  | \$19.41               | \$23.47               | \$28.57      | \$35.57               | \$42.35               |
| 51-9199         | Production Workers, All Other   | \$10.05               | \$11.30               | \$13.56      | \$17.68               | \$23.39               |
| 11-3051         | Industrial Production Managers  | \$34.06               | \$44.21               | \$56.74      | \$71.68               | \$89.16               |
| 51-1011         | First-Line Supervisors of Production and Operating Workers  | \$19.65               | \$24.95               | \$32.79      | \$41.90               | \$52.82               |
| 17-3023         | Electrical and Electronic Engineering Technologists and Technicians   | \$19.52               | \$24.56               | \$30.67      | \$35.34               | \$39.93               |
| 17-3098         | Calibration Technologists and Technicians and Engineering Technologists and Technicians, Except Drafters, All Other | \$17.75               | \$23.97               | \$35.47      | \$44.37               | \$52.36               |
| 49-9041         | Industrial Machinery Mechanics  | \$16.88               | \$21.11               | \$26.49      | \$32.12               | \$38.06               |
| 51-4121         | Welders, Cutters, Solderers, and Brazers  | \$13.61               | \$16.41               | \$19.95      | \$24.13               | \$29.73               |
| 51-4111         | Tool and Die Makers   | \$16.50               | \$21.16               | \$27.43      | \$33.60               | \$37.35               |

### In-Demand Technical Skills

- Field Service Management
- Plumbing
- Machinery
- Hand Tools
- Preventive Maintenance

### In-Demand Foundational Skills

- Communications
- Troubleshooting (Problem Solving)
- Customer Service
- Management
- Valid Driver's License

### In-Demand Certifications

- Commercial Driver's License (CDL)
- HVAC Certification
- Automotive Service Excellence (ASE) Certification
- Master Of Business Administration (MBA)
- Project Management Professional Certification

### In-Demand Education Level\*

- High School Diploma: 34.7%
- Associate Degree: 10.4%
- Bachelor's Degree: 18.0%
- Master's Degree: 3.2%

### Top Posting Employers

- Consumers Energy
- Diverse Staffing
- Xcel Staffing
- H.B. Fuller
- Dawn Food Products
- Schneider Electric
- The Related Group
- Elm Plating Company
- Eaton Corporation
- U. S. Staffing

*\*Not all job postings indicate the required educational attainment level; the percentages indicated may not equal 100 percent.*



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