

Q4 2018
October - December

OAKLAND COUNTY

WIN Labor Market Report





INTRODUCTION

Oakland County | Q4 2018

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About This Report

The Workforce Intelligence Network for Southeast Michigan (WIN) partnership is a collaboration of six Michigan Works! Agencies (MWAs) and ten community colleges across a 16-county region in Michigan. The counties in the WIN partnership include: Genesee, Hillsdale, Huron, Jackson, Lapeer, Lenawee, Livingston, Macomb, Monroe, Oakland, Saint Clair, Sanilac, Shiawassee, Tuscola, Washtenaw, and Wayne, along with the City of Detroit.

This report highlights labor market information and real-time job posting data for Oakland county. A workforce overview is provided within identifying key components of the area's labor market including 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 health of the labor market. This data is used to provide a real-time demand overview, detailing posting related findings for both employers and job seekers. WIN's 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, their entry requirements, and their earning potential.

WIN produces a 16-county region report quarterly 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 Detroit's 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 analyzes data from the fourth quarter of 2018 in Oakland county and includes summative data for October, November, and December of 2018. The Oakland report focuses on analyzing the Business and Finance, Health Care, Information Technology, Skilled Trades, and TDL occupation groups.

For more information pertaining to the labor market in southeast Michigan, the custom occupation groups within this report, or any other workforce-related data projects, please visit www.WINintelligence.org or contact the data and research team directly at research@WINintelligence.org.



ANNUAL STATE OF THE LABOR MARKET

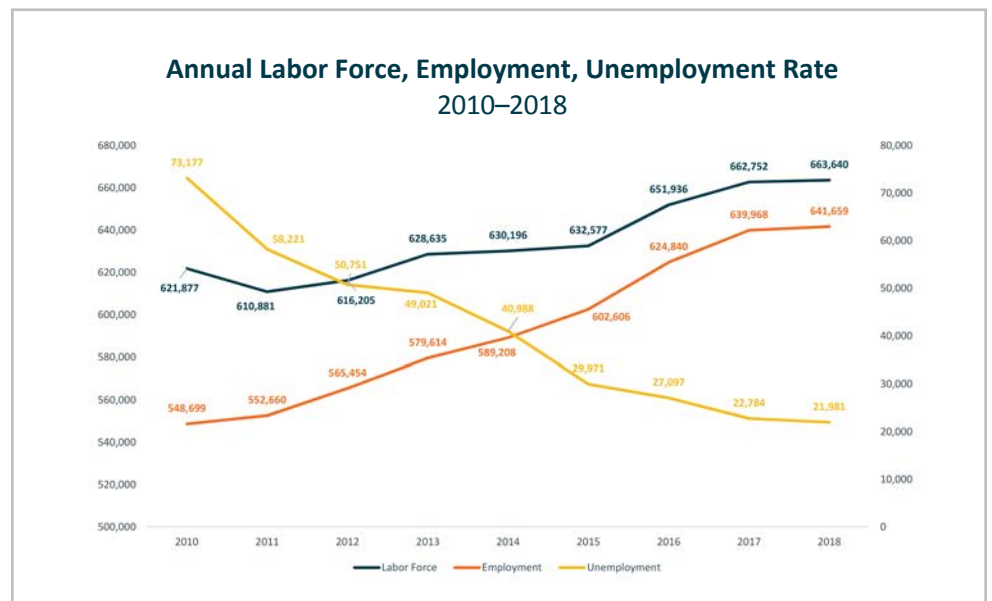
Oakland County | Q4 2018

State of the Labor Market in Oakland County

Over the course of 2018, the labor force and employment figures both increased in Oakland county. With this simultaneous increase in both labor force and employment, the number of unemployed individuals decreased in the region. This caused the unemployment rate to drop from the 3.4 percent annual rate in 2017 to the annual rate of 3.3 percent in 2018. Employer demand for most occupation groups also increased during Q4 2018. The TDL occupation group reported the highest demand with over 13,000 job postings during the quarter. Other occupation groups also offer great job opportunities for active job seekers: health care postings grew by 18 percent from Q3 2018, and 39 percent of postings were open to entry-level applicants.

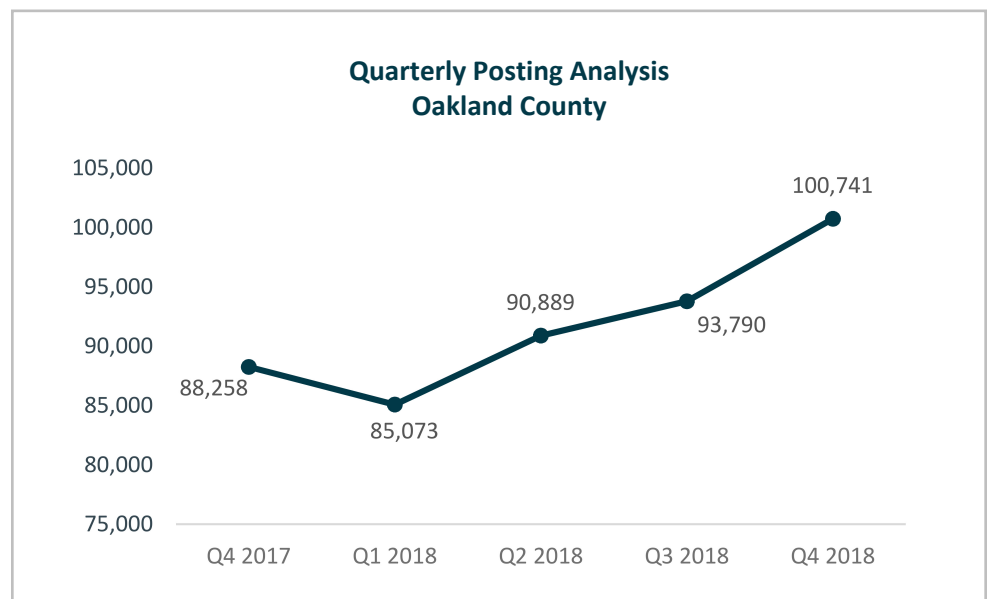
Annual Labor Market Information

Moving into a ten-year high, the labor force in the Oakland county increased by 888 individuals between 2017 and 2018. Employment increased by nearly double that number between 2017 and 2018, adding 1,691 workers. With employment increasing by a greater margin than the labor force, the unemployment rate fell by 0.1 percentage points from the already remarkably low annual figures in 2017 to an annual rate of 3.3 percent in 2018.



Quarterly Employer Demand Overview

Data from the fourth quarter of 2018, including posting information from October, November, and December, showed continued growth in employer demand in Oakland County. There were 13,483 more postings during Q4 2018 than the 88,258 postings made during Q4 2017 for a total of 101,741 postings. Typically, demand tends to grow through the end of the year, and Q4 2018 job postings are 15 percent higher than the level of demand at the end of 2017.



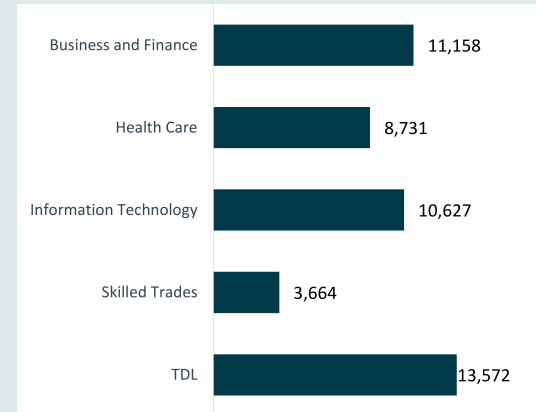


QUARTERLY WORKFORCE INDICATORS Oakland County | Key Findings for Q4 2018

Employer demand surges to 101,400 postings during Q4 2018, with most occupation groups analyzed by WIN experiencing increases in online job postings between Q3 and Q4 2018.

During Q4 2018, there were 101,437 jobs posted, 7,649 more than the 93,788 jobs posted during Q3 2018 in Oakland County. Most of the occupation groups analyzed by WIN experienced an increase during the fourth quarter of 2018. The IT and health care groups each increased by over 1,000 postings, while business and finance and TDL also grew by over 500 postings from Q3 2018. A bachelor's degree is required for many of the fastest-growing occupations. For more information about quarterly job postings, see page 2.

Postings by Occupation Group Q4 2018

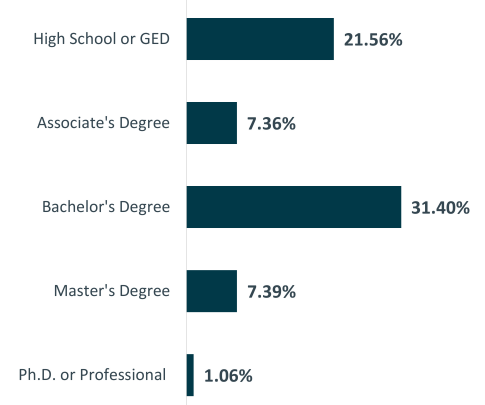


Data: Emsi | Analysis: Workforce Intelligence Network

Job postings made by employers in Oakland County indicate a high school diploma or GED as the most in-demand minimum education level during Q4 2018.

Over a quarter (31.4 percent) of the 101,437 jobs posted in Oakland county indicated the need for candidates with a bachelor's degree. Another 21.5 percent of these postings were looking for applicants with a high school diploma or equivalent. Higher education attainment tends to lead to more lucrative opportunities, but many entry level opportunities exist in each occupation group. As only 68 percent of job postings identified a minimum education level, educational requirements may vary somewhat across all job openings in the county.

Education Levels In-Demand Q4 2018



Data: Emsi | Analysis: Workforce Intelligence Network

The Q4 2018 unemployment rate of 3.2 percent in Oakland County was down 0.2 percentage points from Q3 2018.

Employment has grown somewhat since Q3 2018, while the labor force has fallen slightly. The growth in workers combined with the drop in labor force participants caused the quarterly unemployment rate to drop from 3.4 percent in Q3 2018 to 3.2 percent in Q4 2018 as fewer people looked for work. Unemployment was low in the county during 2018, even reaching an unemployment rate below 3.0 percent in April and May. For more information about this quarter's unemployment rate and other labor market indicators, see page 4.

Quarterly Labor Market Data

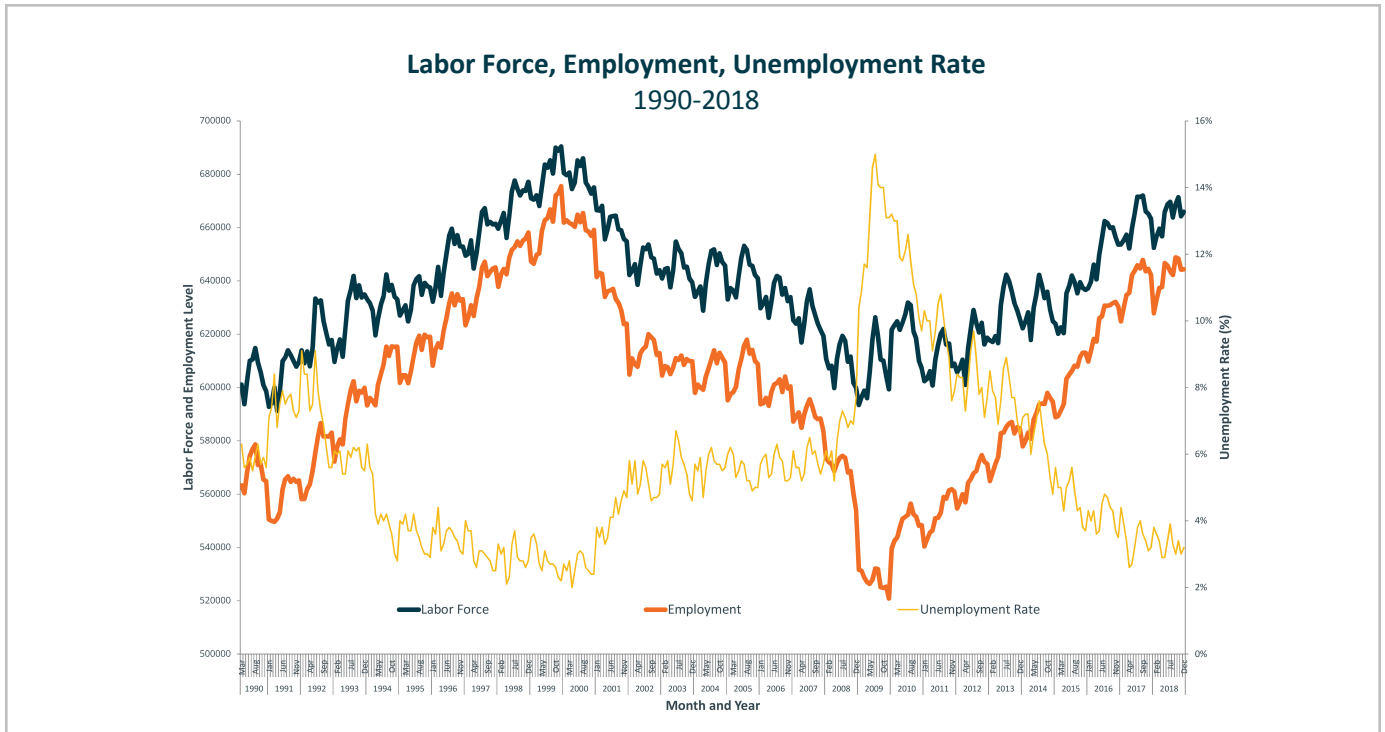
	3rd Quarter 2018	4th Quarter 2018	Change from 3rd Quarter 2018	Percent Change from 3rd Quarter 2018
Labor Force	667,438	667,204	-234	0.0%
Employment	644,886	645,666	780	0.1%
Unemployment	22,552	21,538	-1,014	-4.5%
Unemployment Rate	3.4%	3.2%	-0.2%	na

Note: Monthly data averaged by quarter | Data: BLS



WORKFORCE OVERVIEW

Oakland County | Labor Market Information Q4 2018



Data: BLS | Analysis: Workforce Intelligence Network

Quarterly Labor Market Data

Q4 2017 - Q4 2018

	4th Quarter 2017	1st Quarter 2018	2nd Quarter 2018	3rd Quarter 2018	4th Quarter 2018	Change from 3rd Quarter 2018	Percent Change from 3rd Quarter 2018	Change from 4th Quarter 2017	Percent Change from 4th Quarter 2017
Labor Force	664,853	654,518	663,724	667,438	667,204	-234	0.0%	2,351	0.4%
Employment	643,433	630,412	643,351	644,886	645,666	780	0.1%	2,233	0.3%
Unemployment	21,420	24,106	20,373	22,552	21,538	-1,014	-4.5%	118	0.6%
Unemployment Rate	3.2%	3.7%	3.1%	3.4%	3.2%	-0.2%	na	0.0%	na

Note: Monthly data averaged by quarter | Data: BLS

Labor Force, Employment, and Unemployment

The labor market in Oakland County has experienced relative stability since 2010. The labor force decreased by 234 workers (0.0 percent) between Q3 2018 and Q4 2018. Employment in the county increased from Q3 2018 values by 780 workers (0.1 percent). With employment increasing while the labor force decreased, the unemployment rate fell by 0.2 percentage points between Q3 2018 and Q4 2018 to 3.2 percent.



WORKFORCE OVERVIEW

Oakland County | 2017 Annual Population Demographics

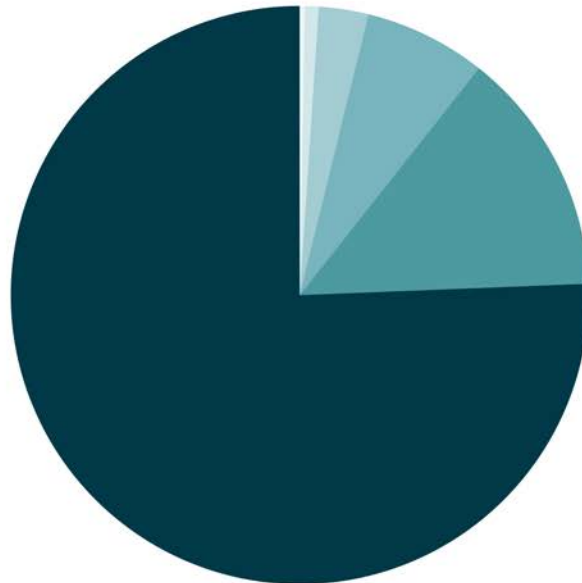
Population Demographics

According to the data from the most recent Census Bureau 2017 ACS Five Year estimates, the population in Oakland increased by 0.5 percent between 2016 and 2017. During 2017, 1,241,860 people were living in the region. The sex of the populace was split almost evenly, with about 51 percent of the population identifying as female, and the other 49 percent identifying as male. The majority of the population identified as white (76 percent) with the second largest number of individuals identifying as black or African American (14 percent). The region as a whole is facing an aging population; 30 percent of population was over the age of 55, compared to 18 percent under the age of 14.



1,124,860
People in the Region
0.5% Increase
from 2016

Population Race Demographics



Population Gender Demographics



51% Females



49% Males



Population Age Demographics





WORKFORCE OVERVIEW

Oakland County | 2017 Annual Labor Force Demographics

2017 Labor Force, Employment, and Unemployment Demographics

Civilian Labor Force by Demographic Group				
Demographic Group	Civilian Labor Force	Total Employment	Total Unemployment	Unemployment Rate
Total Population 16 +	665,386	629,202	35,265	5.3%
Sex				
Male 16+	351,580	332,807	18,773	5.3%
16-19	13,102	10,380	2,722	20.8%
20-24	30,652	27,268	3,384	11.0%
25-54	224,189	214,763	9,426	4.2%
55-64	63,063	60,628	2,435	3.9%
65 Plus	20,574	19,768	806	3.9%
Female 16+	313,542	296,744	16,798	5.4%
16-19	14,203	12,370	1,833	12.9%
20-24	28,626	25,496	3,130	10.9%
25-54	198,380	188,772	9,608	4.8%
55-64	56,317	54,508	1,809	3.2%
65 Plus	16,016	15,598	418	2.6%
Race				
White	509,146	485,231	23,930	4.7%
Black / African American	90,863	82,503	8,359	9.2%
Native American	1,800	1,699	103	5.7%
Asian	45,089	43,554	1,533	3.4%
Native Hawaiian / Pacific Islander	163	155	8	4.9%
Some Other Race	5,309	4,907	382	7.2%
Two or More Races	13,235	11,909	1,310	9.9%
Ethnicity				
Hispanic	23,303	21,420	1,794	7.7%

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

Labor Market Demographics

During 2017, the most recent census year, there were about 665,000 people in the labor force, meaning they were either working or looking for work, in Oakland County. Slightly more than half of the population of 1,241,860 individuals (54 percent) living in the region were participating in the labor force. The highest unemployment rates were seen in those aged 24 years old or younger. Males under the age of 19 face an unemployment rate of 20.8 percent. Black or African American job seekers also have a difficult time finding employment, facing an unemployment rate of 9.2 percent.



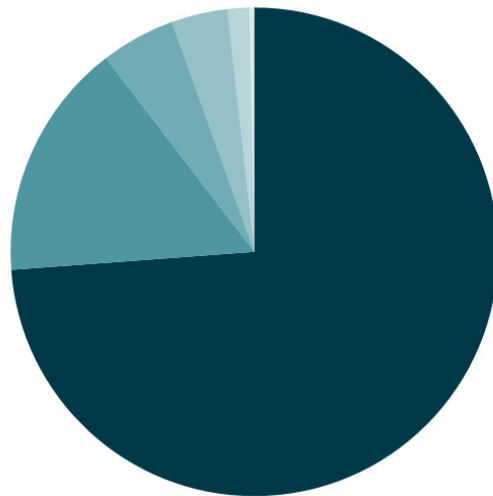
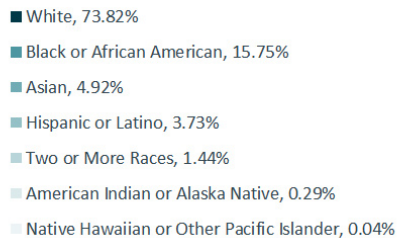
WORKFORCE OVERVIEW

Oakland County | 2018 Annual Working Population Demographics

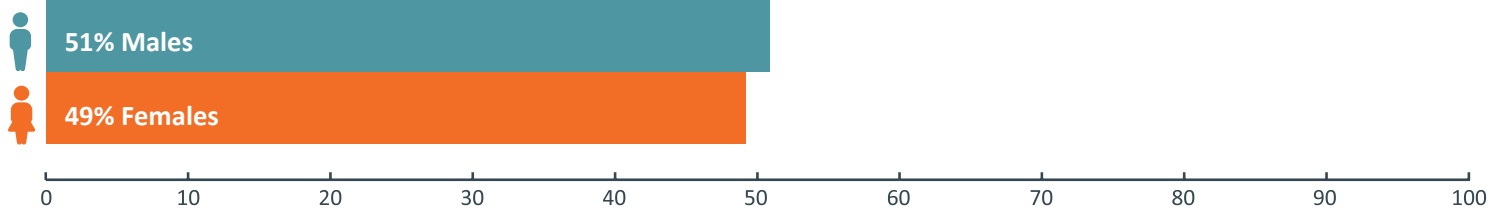
Current Workforce Demographics

While the Census Bureau data is lagged by about two years, Emsi uses predictive modeling to estimate workforce information for the previous year, allowing for more current analysis. During 2018, there were a total of 747,710 individuals working in Oakland County. A slight majority (51 percent or 378,017 workers) were male, while 49 percent (369,694 workers) of the workforce was female. Most of those working in the region were white, accounting for 73.8 percent of the workforce, while African American or black workers accounted for 15.8 percent of the workforce. Those identifying as having a Hispanic or Latino ethnicity accounted for 3.8 percent. Eighty-six percent of the workforce was 25 years or older. Only fourteen percent of those under the age of 25 were working, indicating an aging workforce in Oakland County.

Workforce Race and Ethnicity Demographics



Workforce Gender Demographics



Workforce Age Demographics





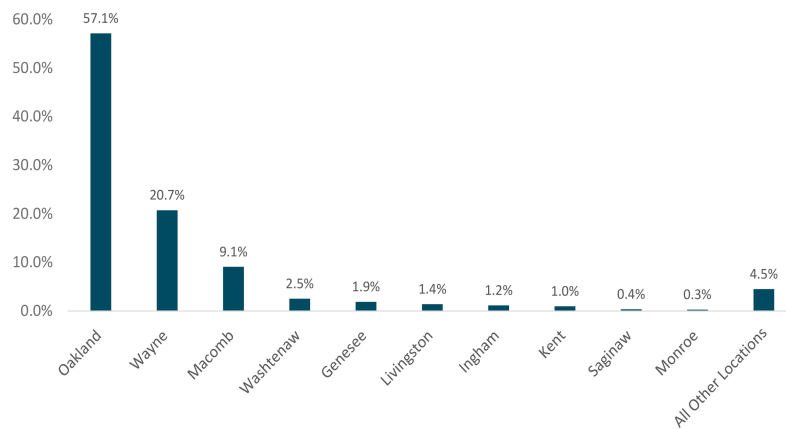
WORKFORCE OVERVIEW

Oakland County | 2015 Regional Commuting Patterns

Regional Commuting Patterns

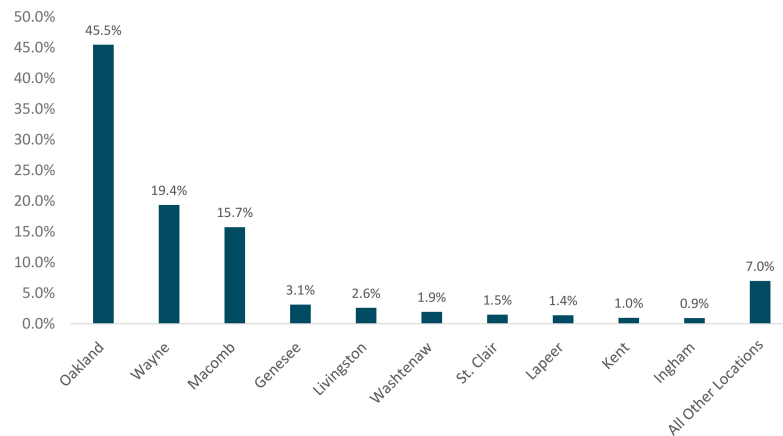
According to the most recent OnTheMap data set available from the Census Bureau, during 2015, the county's workforce consisted of 547,430 residents. 312,652 (57.1 percent) of the residents lived and worked within the county, while the remaining 234,778 residents (42.9 percent) traveled outside of the region for work. There were 687,465 workers employed in the region during 2015. Of those, 374,816 workers (54.5 percent) lived outside of the region's borders and commuted in. From this information, we can see that the Oakland is a net importer of jobs, with more workers entering the area for employment than outwardly commuting.

Where Oakland County Residents Work

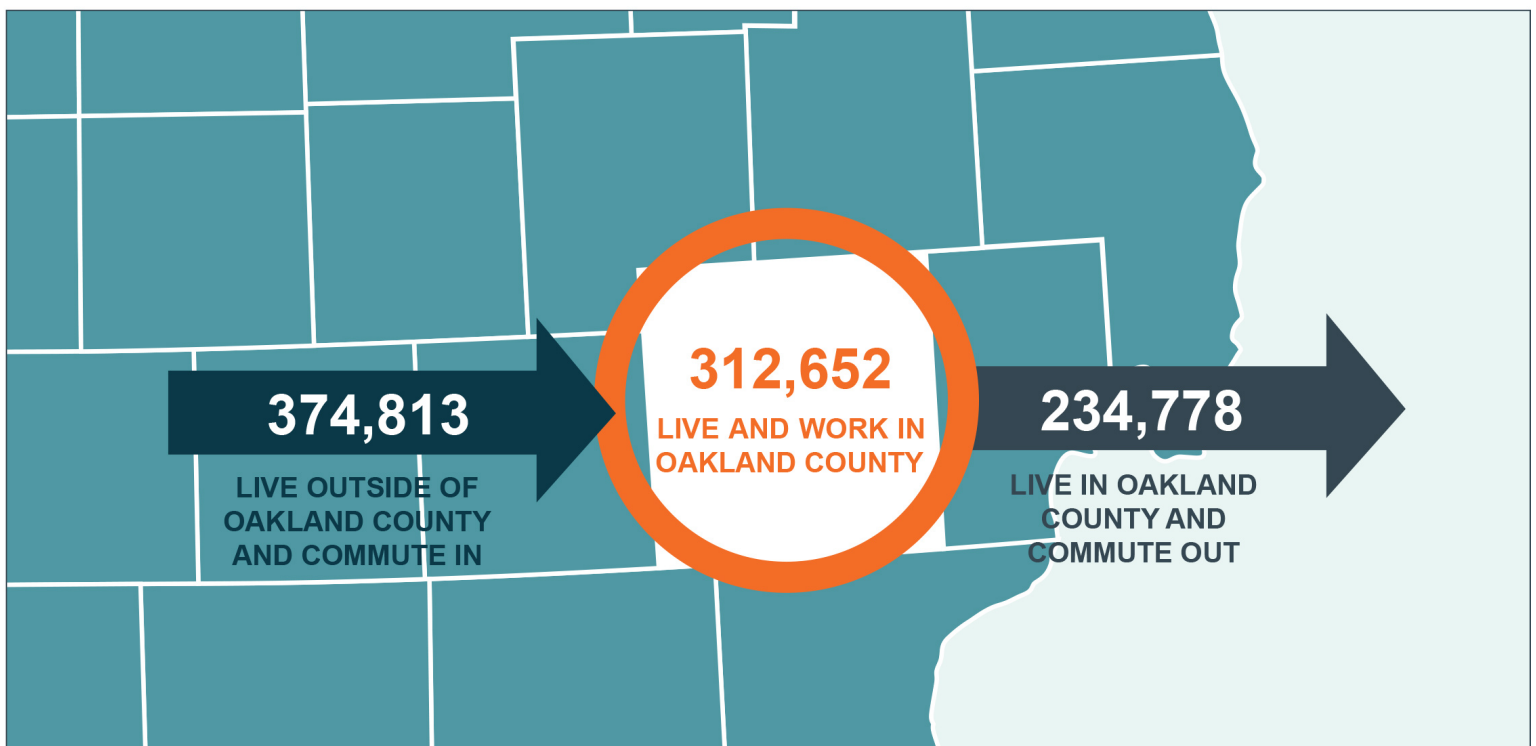


Data: U.S. Census OnTheMap, 2015
Analysis: Workforce Intelligence Network

Where Oakland County Workers Live



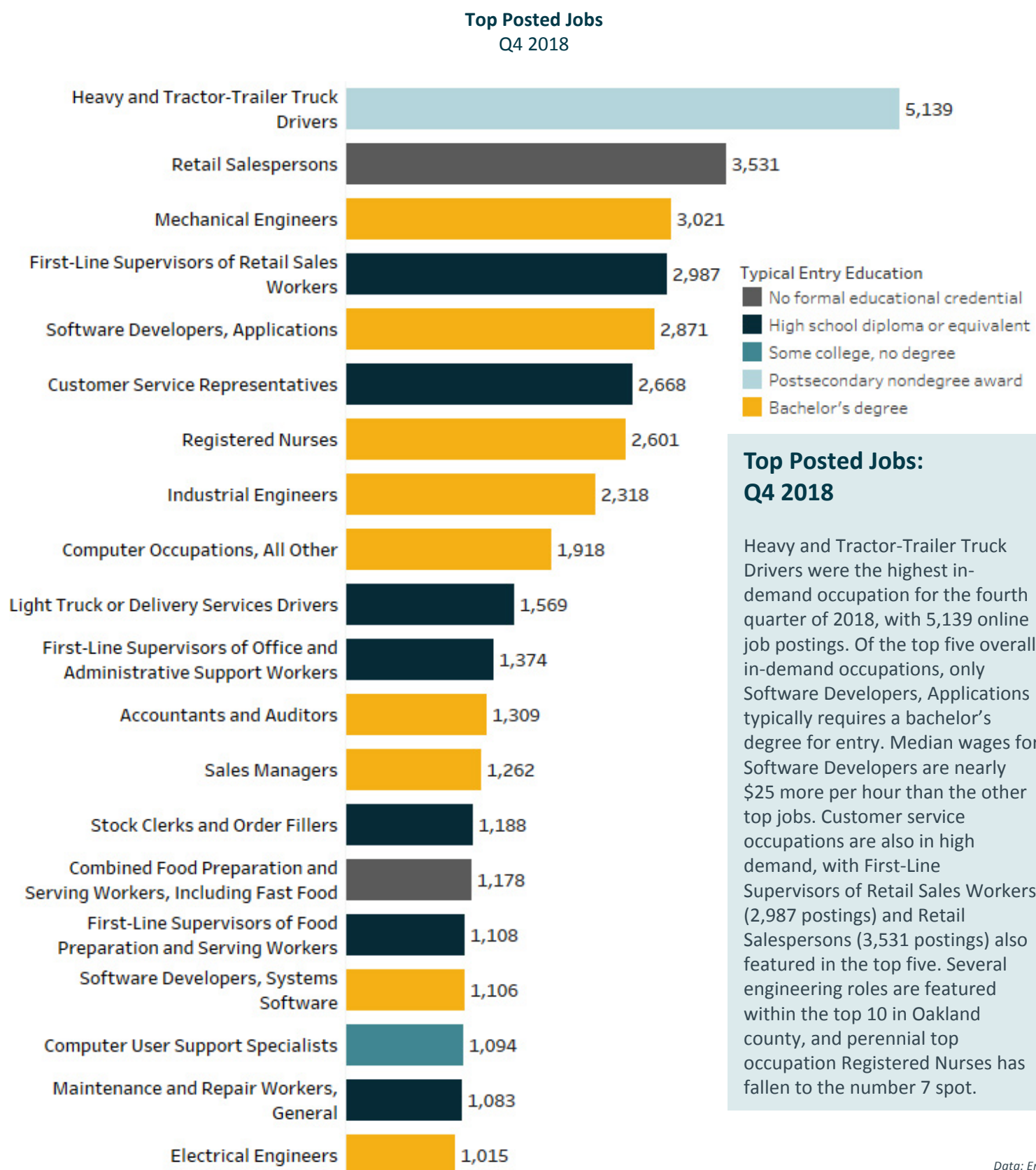
Data: U.S. Census OnTheMap, 2015
Analysis: Workforce Intelligence Network





REAL-TIME DEMAND OVERVIEW

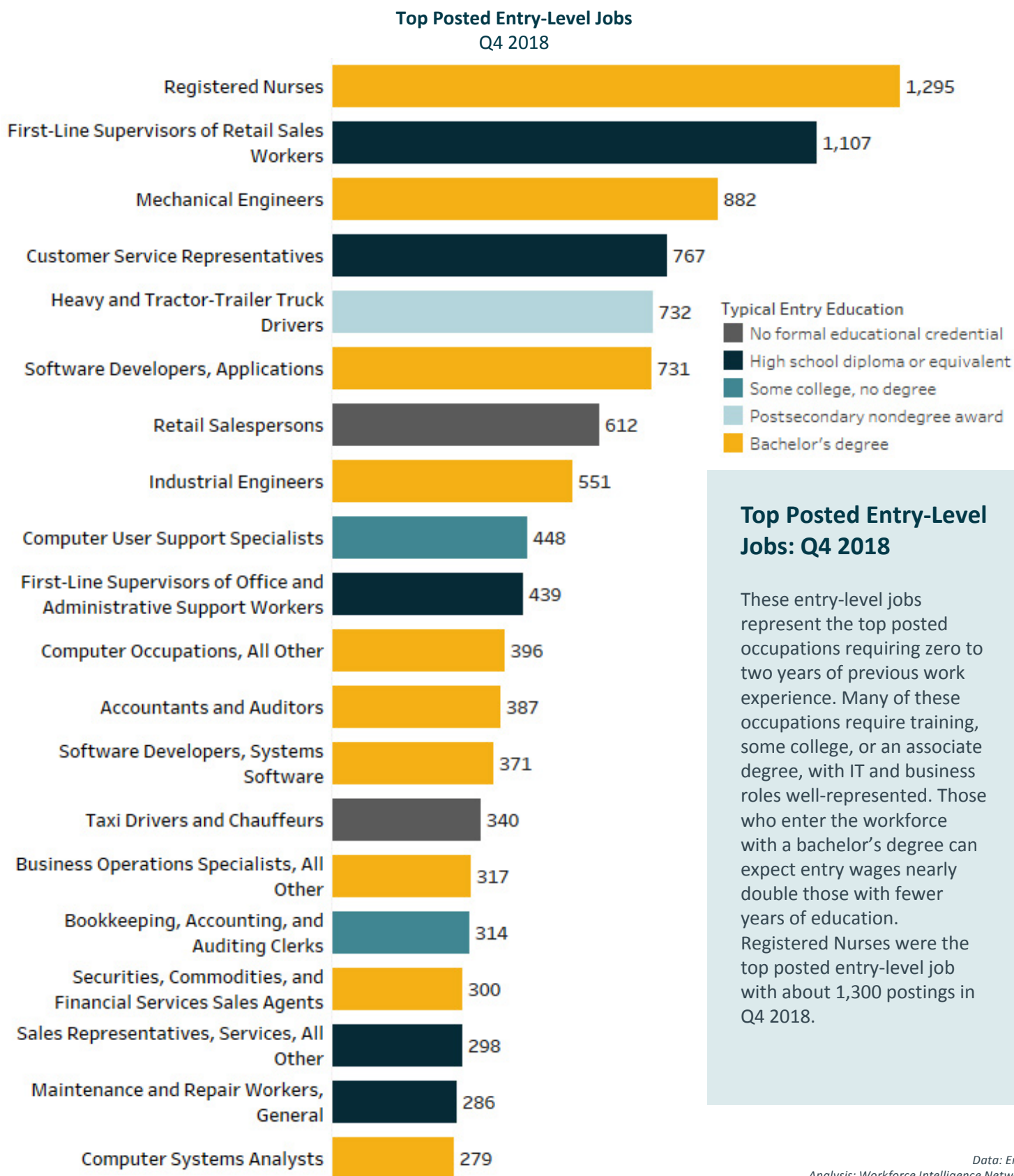
Oakland County | Top Posted Jobs | Q4 2018





REAL-TIME DEMAND OVERVIEW

Oakland County | Top Posted Entry-Level Jobs | Q4 2018

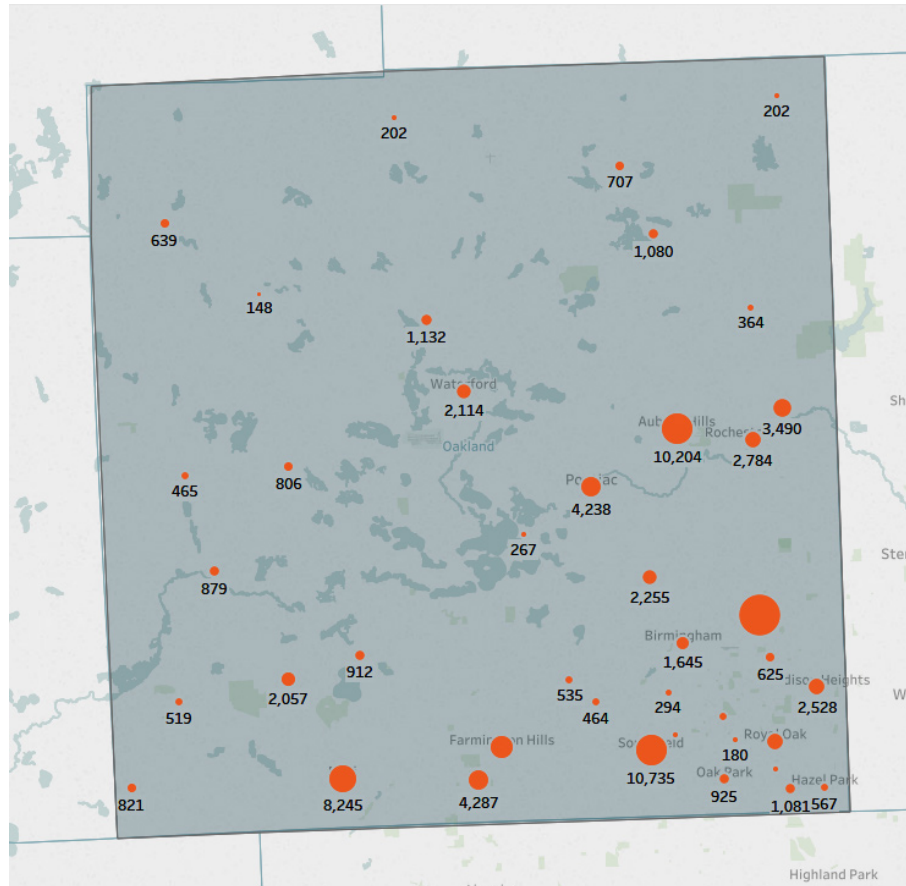




REAL-TIME DEMAND OVERVIEW

Oakland County | Job Postings by City | Q4 2018

Job Postings by City Q4 2018



Map based on Longitude (generated) and Latitude (generated). Size shows sum of Unique Postings (Oct 2018–Dec 2018). Details are shown for City.

Top In-Demand Qualifications

- Commercial Driver's License (CDL)
- Certified Nursing Assistant
- Licensed Practical Nurse
- CompTIA Security+
- Certified Public Accountant
- Patient Care Technician
- Nurse Practitioner
- Radiologic Technologist
- American Registry of Radiologic Technologists (ARRT) Certified
- Certified Medical Assistant

Top In-Demand Skills

- Merchandising
- Selling Techniques
- Accounting
- Restaurant Operation
- Nursing
- Customer Satisfaction
- Customer Experience
- Purchasing
- Automotive Industry
- Electrical Engineering

Top Posting Employers*

- Oracle Corporation
- William Beaumont Hospital
- FCA US LLC
- Shipt LLC
- Robert Half International Inc.
- Kelly Services, Inc.
- Ascension Health
- Endevis, L.L.c
- The Home Depot Inc
- J.B. Hunt Transport Services, Inc.
- CVS Health Corporation

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



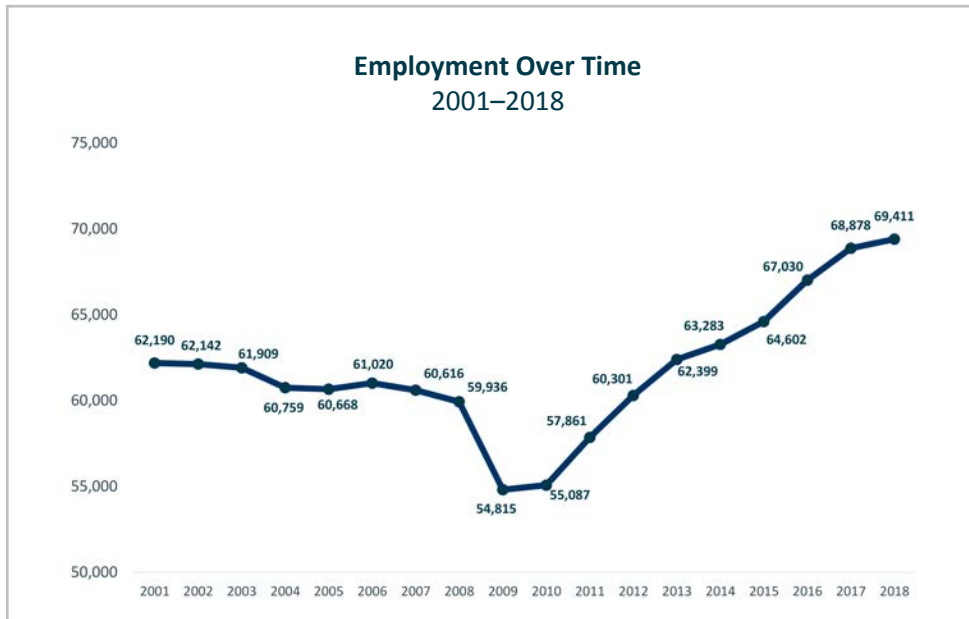
BUSINESS AND FINANCE OCCUPATION GROUP Oakland County| Q4 2018

Introduction

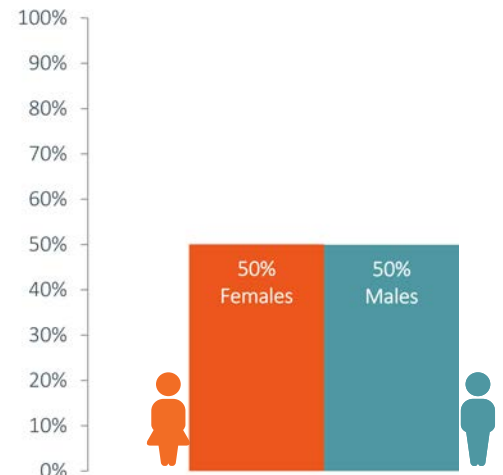
Jobs in the business and finance occupation group can be found in nearly every type of establishment/firm throughout the region. These workers need strong mathematical and accounting abilities along with project management and planning skills. Workers in this occupation group are in high demand in southeast Michigan.



69,411
Business Workers
0.8% Increase
from 2017



Worker Gender Demographics



Business and Finance Worker Demographics

According to the most recent Emsi data set available (2018), the business and finance occupation group is a relatively diverse occupation group with respect to its nearly 70,000 workers. Half the working population identify as female (50 percent). In addition, 81 percent of workers are white, so the field may offer opportunity for minority workers. Only five percent of the working population is under the age of 25, indicating a large aging population of business and finance workers.

Race and Ethnicity Demographics

81.1% White | **10.2% Black or African American** | **5.0% Asian**

Worker Age Demographics

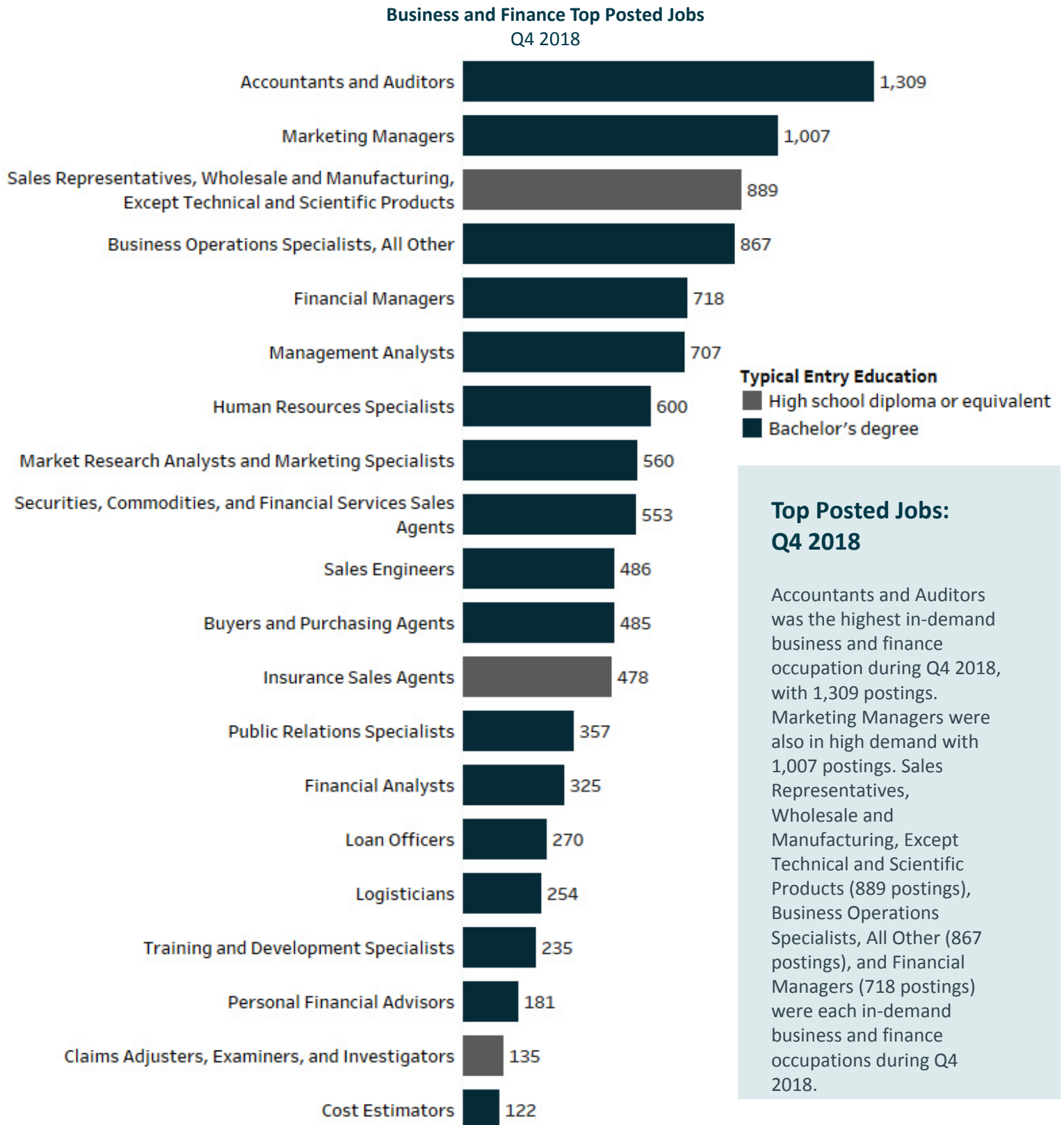




11,158 Business and Finance Postings:
581 More than in Q3 2018



Bachelor's Degree Required for
Most Business and Finance Jobs





High Earning Potential for Marketing Managers



CPA: In-Demand Business and Finance Certification

Business and Finance Wage Overview

Most business and finance related jobs offer high wages, providing a lucrative opportunity for job seekers willing to attain the necessary education. According to the Bureau of Labor Statistics (BLS), the top posted business and finance job, Accountants and Auditors offers median hourly wages of \$35.76, translating to annual earnings of approximately \$74,000.

Wage Overview for Top Posted Business and Finance Jobs in Q4 2018

Occupation Code	Occupation Name	10th Percentile Wages	25th Percentile Wages	Median Wages	75th Percentile Wages	90th Percentile Wages
13-2011	Accountants and Auditors	\$22.07	\$27.02	\$35.76	\$49.77	\$67.28
11-2021	Marketing Managers	\$35.83	\$45.39	\$61.16	\$79.71	\$124.43
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	\$14.43	\$22.14	\$32.61	\$48.72	\$66.70
13-1199	Business Operations Specialists, All Other	\$18.30	\$25.29	\$35.65	\$48.21	\$60.37
11-3031	Financial Managers	\$37.65	\$47.63	\$61.37	\$80.83	\$130.64
13-1111	Management Analysts	\$25.43	\$32.17	\$44.45	\$60.56	\$93.24
13-1071	Human Resources Specialists	\$17.96	\$22.78	\$29.81	\$38.96	\$50.25
13-1161	Market Research Analysts and Marketing Specialists	\$14.29	\$21.14	\$30.73	\$42.69	\$58.17
41-3031	Securities, Commodities, and Financial Services Sales Agents	\$16.56	\$19.12	\$25.50	\$42.67	\$107.23
41-9031	Sales Engineers	\$32.24	\$40.61	\$50.74	\$61.63	\$75.00

Data: Emsi, BLS | Analysis: Workforce Intelligence Network

In-Demand Technical Skills

- Accounting
- Auditing
- Business Development
- Financial Statements
- Selling Techniques

In-Demand Foundational Skills

- Management
- Sales
- Communications
- Operations
- Customer Service

In-Demand Education Level*

- High School Diploma: 12.3%
- Associate Degree: 4.9%
- Bachelor's Degree: 56.8%
- Master's Degree: 12.9%

*Not all job postings indicate the required educational attainment level, therefore the percentages found here may not add up to 100 percent

In-Demand Certifications

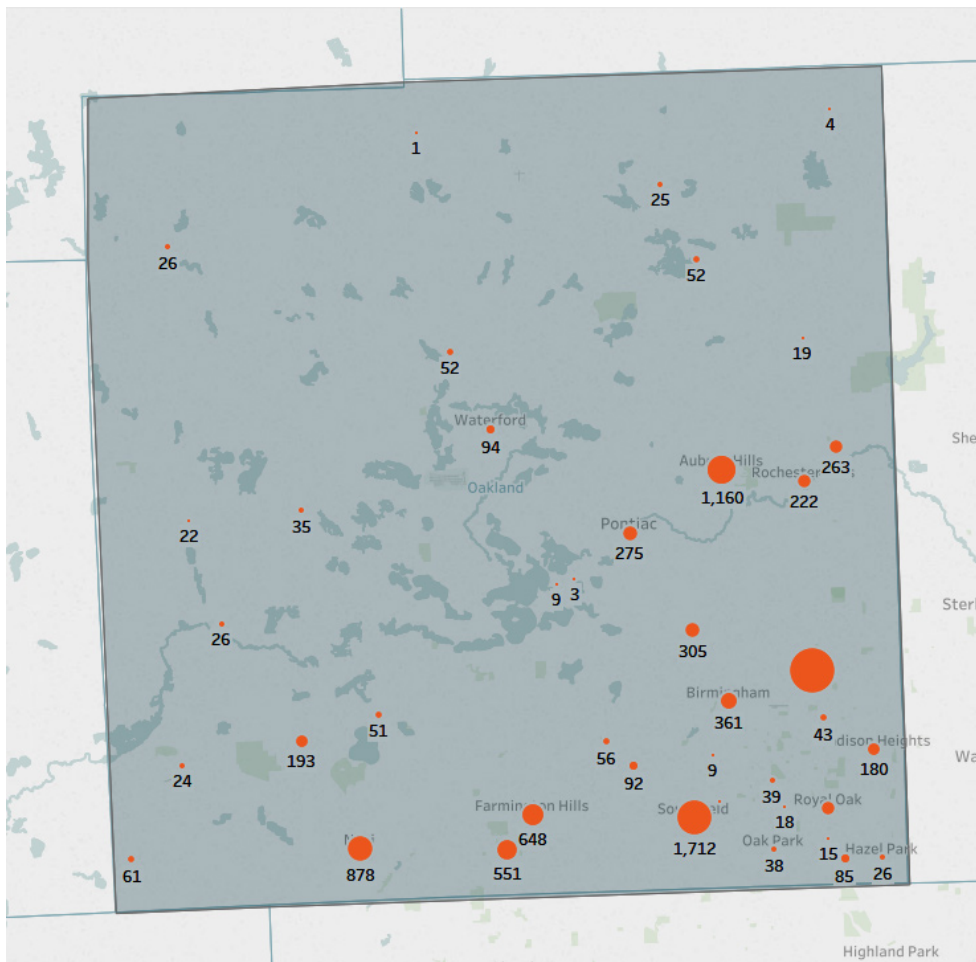
- Certified Public Accountant
- Series 7 General Securities Representative License
- Series 6 Investment Company and Variable Contracts License (Mutual Funds/Variable Annuities)
- Certified Financial Planner
- Series 66 Uniform Investment Adviser: Combined State Laws License (Combined 63 And 65)



Banks and Financial Corporations Seeking Business and Finance Workers



Accounting and Auditing Skills are in High Demand



Map based on Longitude (generated) and Latitude (generated).
Size shows sum of Unique Postings (Oct 2018–Dec 2018). Details are shown for City.

Top Job Posting Employers*

- Oracle Corporation
- Robert Half International Inc.
- FCA US LLC
- State Farm Insurance
- JPMorgan Chase & Co.
- Bank of America Corporation
- Kelly Services, Inc.
- Huntington Bancshares Incorporated
- Flagstar Bancorp, Inc.
- Comerica Incorporated

Job Postings by City

1. Troy, MI: 2,930 Postings
2. Southfield, MI: 1,712 Postings
3. Auburn Hills, MI: 1,160 Postings
4. Novi, MI: 878 Postings
5. Farmington Hills, MI: 648 Postings

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



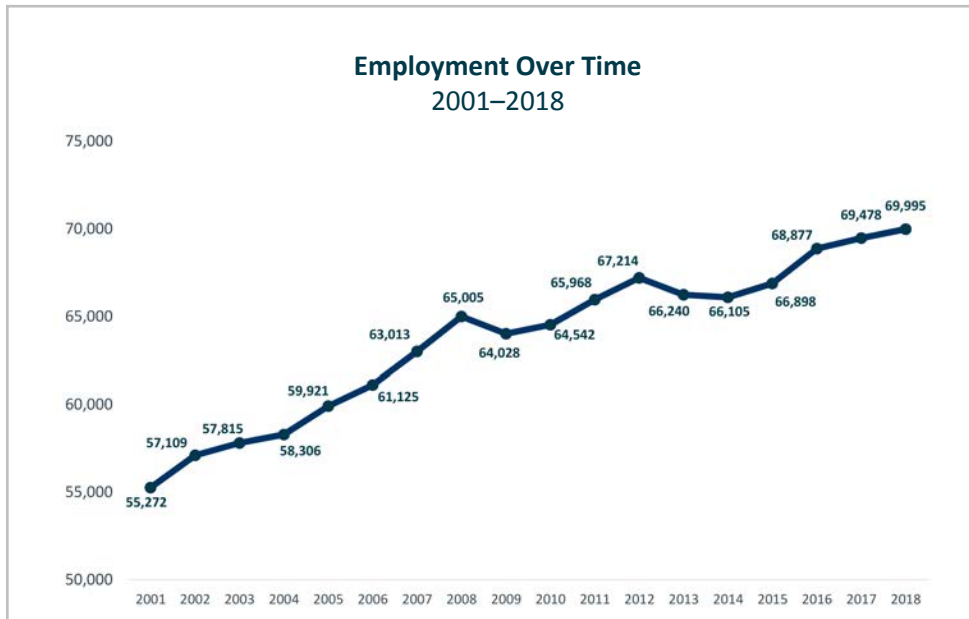
HEALTH CARE OCCUPATION GROUP Oakland County | Q4 2018

Introduction

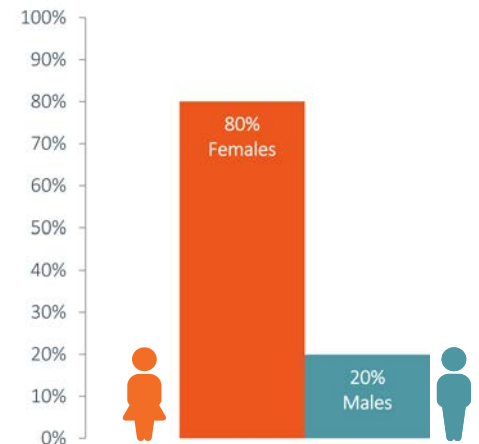
WIN's health care occupation group includes jobs related to health care support and practitioners. Employment in this group has been consistently growing, more health care workers needed to care for Michigan's aging population and in response to regulatory and other changes. Registered nurses are routinely the most in-demand job in this group.



69,478
Health Care Workers
0.7% Increase
from 2017



Worker Gender Demographics



Health Care Worker Demographics

According to the most recent Emsi data set available (2018), the Health Care occupation group employs around 70,000 workers, who are primarily female (80 percent) and between the ages of 25 and 54 (70 percent), although 21 percent of workers are over 55. The group has a similar proportion of racial minorities as the workforce as a whole, with 70 percent of workers identifying as white, 20 percent identifying as black or African American, and ten percent identifying otherwise.

Race and Ethnicity Demographics

70.1% White | **19.7% Black or African American** | **6.5% Asian**

Worker Age Demographics

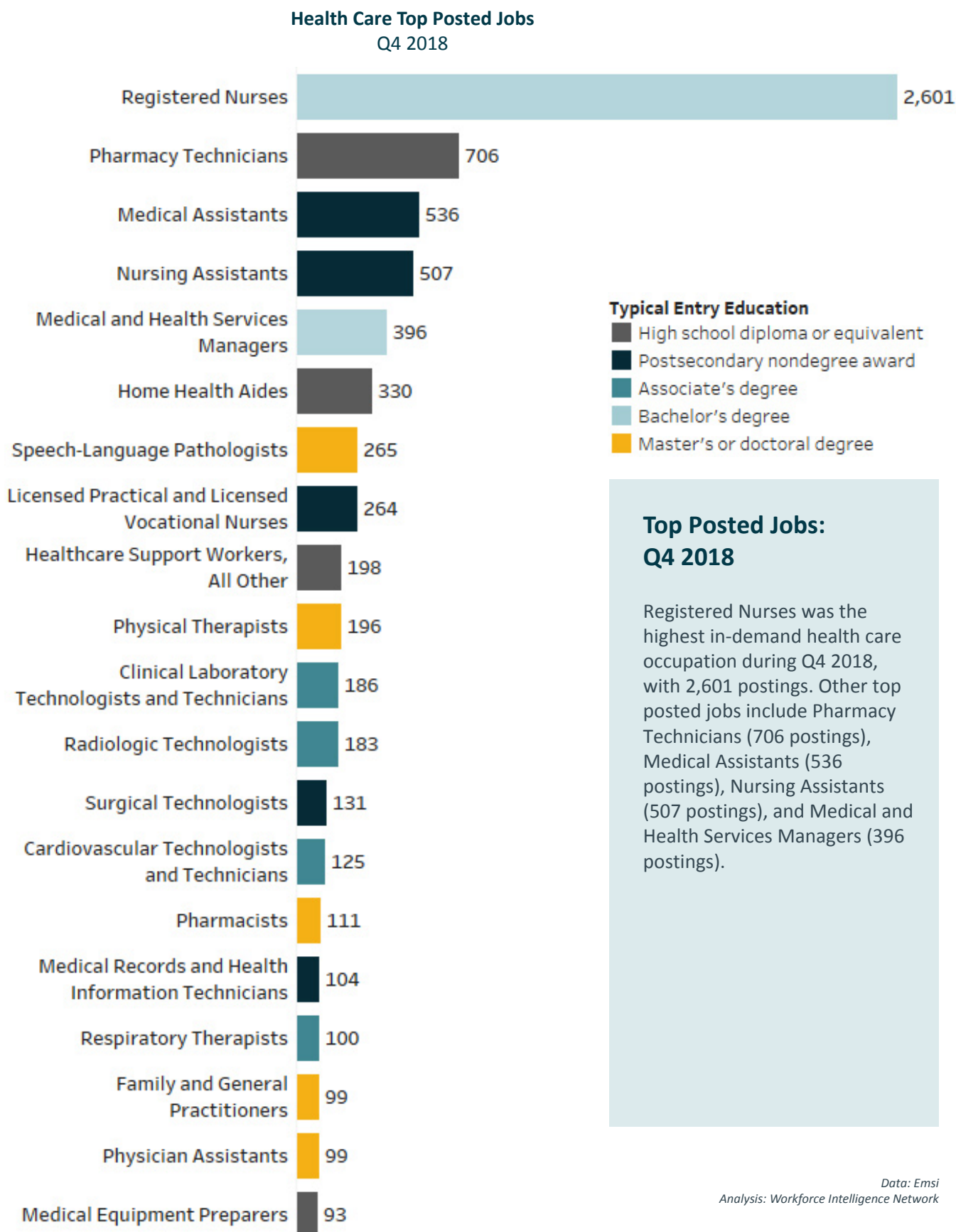




8,731 Health Care Postings:
1,340 More than Q3 2018



Bachelor's Degree Required for
High Paying Health Care Jobs





High Earning Potential for Medical and Health Services Managers



Licensed Practical Nurse: Most In-Demand Health Care Certification

Health Care Wage Overview

Wages in the high-demand health care field tend to scale with both education and experience. The health care occupation group offers a relatively broad array of entry requirements and a high volume of jobs are open to candidates with less than a bachelor's degree. These jobs that require less than a bachelor's degree pay more than the region's median wage of \$17.81 per hour. Registered Nurses, the top posted health care job in Q4 2018, offers a median hourly wage of \$35.22 per hour or annual salary of about \$73,000 according to the Bureau of Labor Statistics (BLS).

Wage Overview for Top Posted Health Care Jobs in Q4 2018

Occupation Code	Occupation Name	10th Percentile Wages	25th Percentile Wages	Median Wages	75th Percentile Wages	90th Percentile Wages
29-1141	Registered Nurses	\$26.57	\$30.46	\$35.22	\$39.58	\$47.00
29-2052	Pharmacy Technicians	\$10.84	\$13.10	\$16.23	\$19.43	\$27.67
31-9092	Medical Assistants	\$12.40	\$13.59	\$15.23	\$17.88	\$19.93
31-1014	Nursing Assistants	\$11.03	\$12.79	\$14.33	\$16.16	\$18.47
11-9111	Medical and Health Services Managers	\$26.96	\$34.48	\$45.39	\$59.15	\$88.11
31-1011	Home Health Aides	\$9.41	\$9.92	\$11.17	\$12.50	\$14.65
29-1127	Speech-Language Pathologists	\$26.54	\$30.91	\$40.49	\$48.49	\$67.88
29-2061	Licensed Practical and Licensed Vocational Nurses	\$20.70	\$22.75	\$26.07	\$29.32	\$31.28
31-9099	Healthcare Support Workers, All Other	\$11.25	\$13.10	\$15.84	\$19.18	\$21.98
29-1123	Physical Therapists	\$30.02	\$36.06	\$43.70	\$50.56	\$68.89

Data: Emsi, BLS | Analysis: Workforce Intelligence Network

In-Demand Technical Skills

- Nursing
- Health Sciences
- Basic Life Support
- Nursing Care
- Clinical Works

In-Demand Foundational Skills

- Management
- Leadership
- Communications
- Cardiopulmonary Resuscitation
- Operation

In-Demand Education Level*

- High School Diploma: 27.9%
- Associate Degree: 22.8%
- Bachelor's Degree: 24.4%
- Master's Degree: 7.8%

*Not all job postings indicate the required educational attainment level, therefore the percentages found here may not add up to 100 percent

In-Demand Certifications

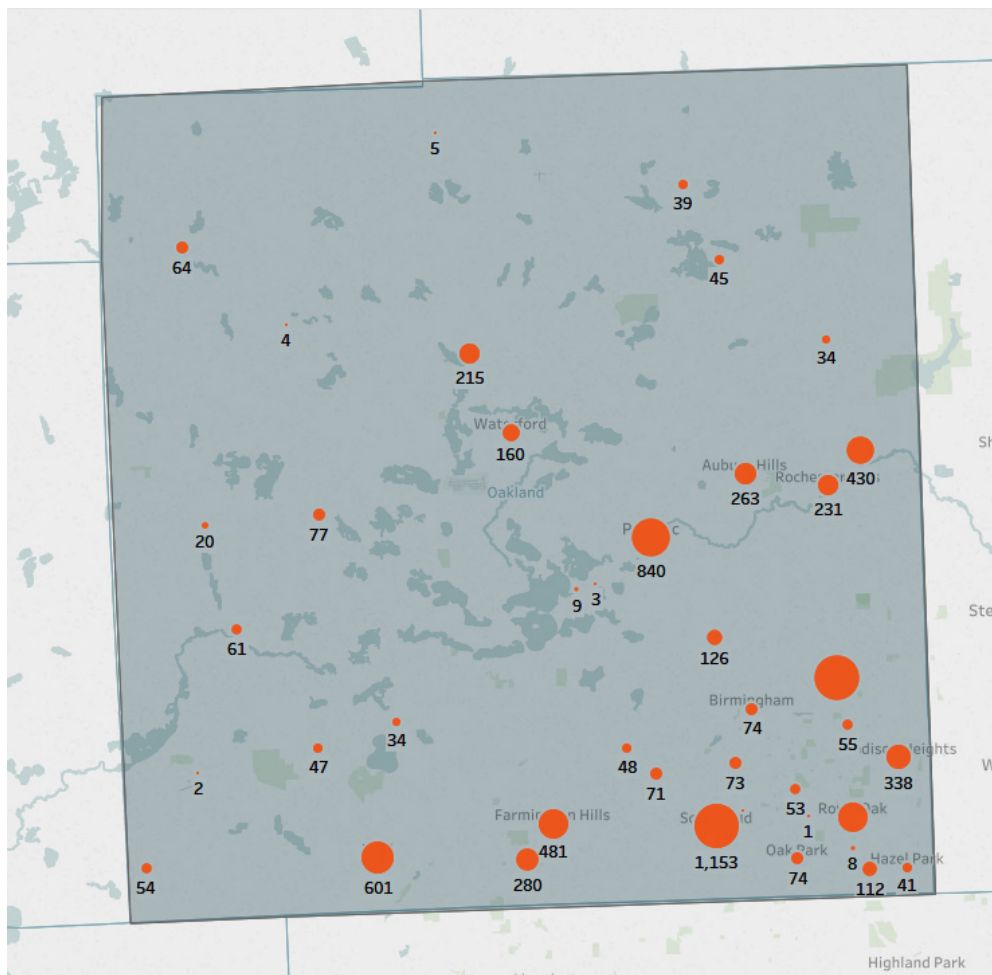
- Certified Nursing Assistant
- Licensed Practical Nurse
- CompTIA Security+
- Patient Care Technician
- Nurse Practitioner



Hospitals and Pharmacies were Top Employers of Health Care Workers



Nursing and Management Skills are in High Demand



Map based on Longitude (generated) and Latitude (generated).
Size shows sum of Unique Postings (Oct 2018–Dec 2018). Details are shown for City.

Top Posting Employers*

- William Beaumont Hospital
- Ascension Health
- Henry Ford Health System
- CVS Health Corporation
- Manor Care, Inc.
- Trinity Health Corporation
- Walgreens Boots Alliance, Inc.
- Tenet Healthcare Corporation
- Soliant Health, Inc
- Sunbelt Staffing, LLC

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

Job Postings by City

1. Troy, MI: 1,171 Postings
2. Southfield, MI: 1,153 Postings
3. Pontiac, MI: 840 Postings
4. Novi, MI: 601 Postings
5. Royal Oak, MI: 503 Postings



INFORMATION TECHNOLOGY (IT) OCCUPATION GROUP

Oakland County | Q4 2018

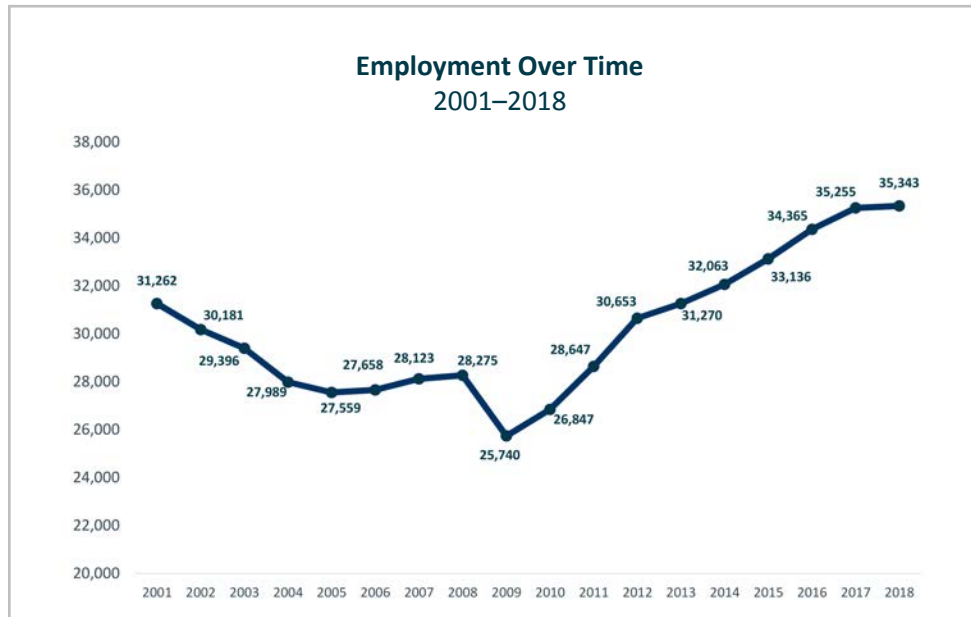
Introduction

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.

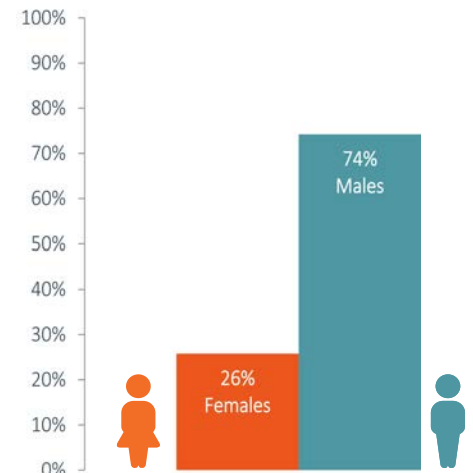


35,343
IT Workers

0.3% Increase
from 2017



Worker Gender Demographics



IT Worker Demographics

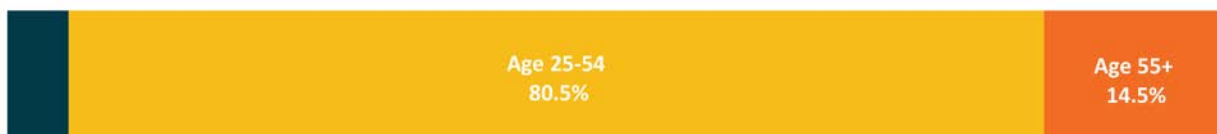
According to the most recent Emsi data set available (2018), the over 35,000 workers in the IT occupation group are primarily white males between the ages of twenty-five and fifty-four. Currently, 74 percent of workers identify as male, and 64 percent identify as white. There are a broad range of organizations providing specialized training resources for female and minority IT workers throughout southeast Michigan. With the push to diversify the IT field, more opportunities are opening for women and minorities.

Race and Ethnicity Demographics

64.4% White | **9.2% Black or African American** | **22.8% Asian**

Population Age Demographics

Age 14-24
5.0%



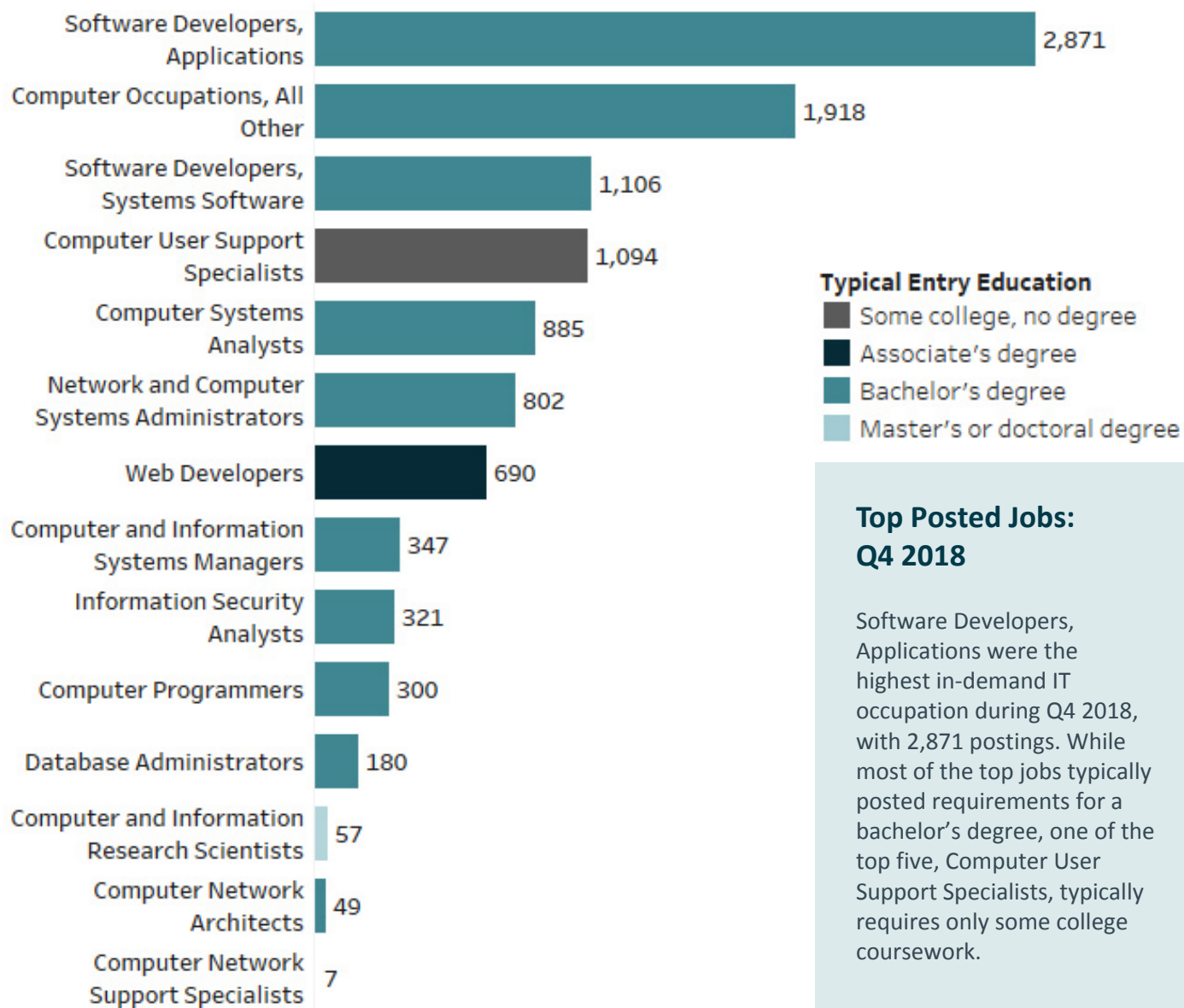


10,627 IT Postings:
1,318 More than in Q3 2018



Bachelors Degree
Required for Most IT Jobs

Information Technology Top Posted Jobs
Q4 2018





High Earning Potential for Computer and Information System Managers



CISSP: Most In-Demand IT Certification

IT Wage Overview

Most IT-related jobs offer high wages providing a lucrative opportunity to job seekers willing to meet the minimum education requirements related to these jobs. Software Developers, Applications, the top posted IT job in Q4 2018, offers a median hourly wage of \$43.86 per hour or about \$91,000 per year according to the Bureau of Labor Statistics (BLS).

Wage Overview for Top Posted IT Jobs in Q4 2018

Occupation Code	Occupation Name	10th Percentile Wages	25th Percentile Wages	Median Wages	75th Percentile Wages	90th Percentile Wages
15-1132	Software Developers, Applications	\$27.04	\$34.75	\$43.86	\$54.01	\$62.18
15-1199	Computer Occupations, All Other	\$19.61	\$25.42	\$36.65	\$49.07	\$60.01
15-1133	Software Developers, Systems Software	\$22.88	\$32.14	\$42.31	\$52.54	\$62.86
15-1151	Computer User Support Specialists	\$15.01	\$18.41	\$24.29	\$30.89	\$40.66
15-1121	Computer Systems Analysts	\$24.99	\$32.49	\$42.15	\$50.85	\$61.33
15-1142	Network and Computer Systems Administrators	\$25.98	\$32.57	\$41.07	\$50.41	\$60.03
15-1134	Web Developers	\$19.02	\$26.47	\$34.01	\$43.23	\$49.38
11-3021	Computer and Information Systems Managers	\$41.36	\$52.42	\$64.00	\$78.06	\$97.44
15-1122	Information Security Analysts	\$27.61	\$32.60	\$43.85	\$55.88	\$65.61
15-1131	Computer Programmers	\$22.13	\$28.16	\$34.53	\$41.54	\$48.00

Data: Emsi, BLS | Analysis: Workforce Intelligence Network

In-Demand Technical Skills

- Software Engineering
- SQL (Programming Language)
- Software Development
- Java (Programming Language)
- Agile Software Development

In-Demand Foundational Skills

- Management
- Communications
- Integration
- Information Technology
- Infrastructure

In-Demand Education Level*

- High School Diploma: 4.7%
- Associate Degree: 3.6%
- Bachelor's Degree: 61.3%
- Master's Degree: 16.4%

*Not all job postings indicate the required educational attainment level, therefore the percentages found here may not add up to 100 percent

In-Demand Certifications

- Certified Information Systems Security Professional (CISSP)
- Microsoft Certified Professional
- Cisco Certified Network Associate
- CompTIA Security+
- Microsoft Certified Systems Engineer



Programming Language Skills are in High Demand



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



SKILLED TRADES AND TECHNICIANS (MANUFACTURING) OCCUPATION GROUP Oakland County | Q4 2018

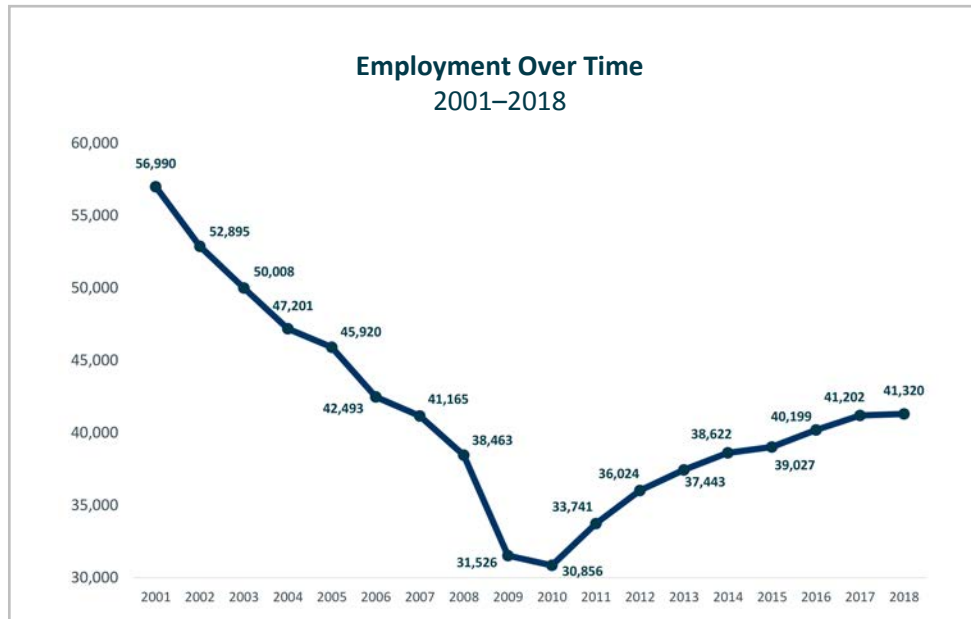
Introduction

WIN's technicians/skilled trades category includes jobs related to advanced manufacturing. Southeast Michigan has more demand for skilled-trades labor, such as CNC machinists and welders, than almost anywhere else in the country.

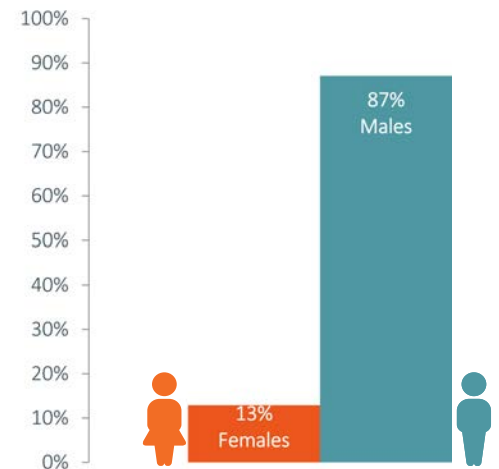
NOTE: Skilled trades related to construction and assembly are not included in this cluster, as the focus is on advanced manufacturing only.



41,320
Trade Workers
0.3% Increase
from 2017



Worker Gender Demographics



Skilled Trades and Technicians Worker Demographics

According to the most recent Emsi data set available (2018), the Skilled Trades occupation group employs about 41,000 workers in Oakland County. A majority of workers are white males between the ages of twenty-five and fifty-four. Additional outreach may be necessary in the near future, as at 25.3 percent, the group has a somewhat higher proportion than average of workers over age 55.

Race and Ethnicity Demographics

79.2% White | **12.1% Black or African American** | **3.3% Asian**

Worker Age Demographics





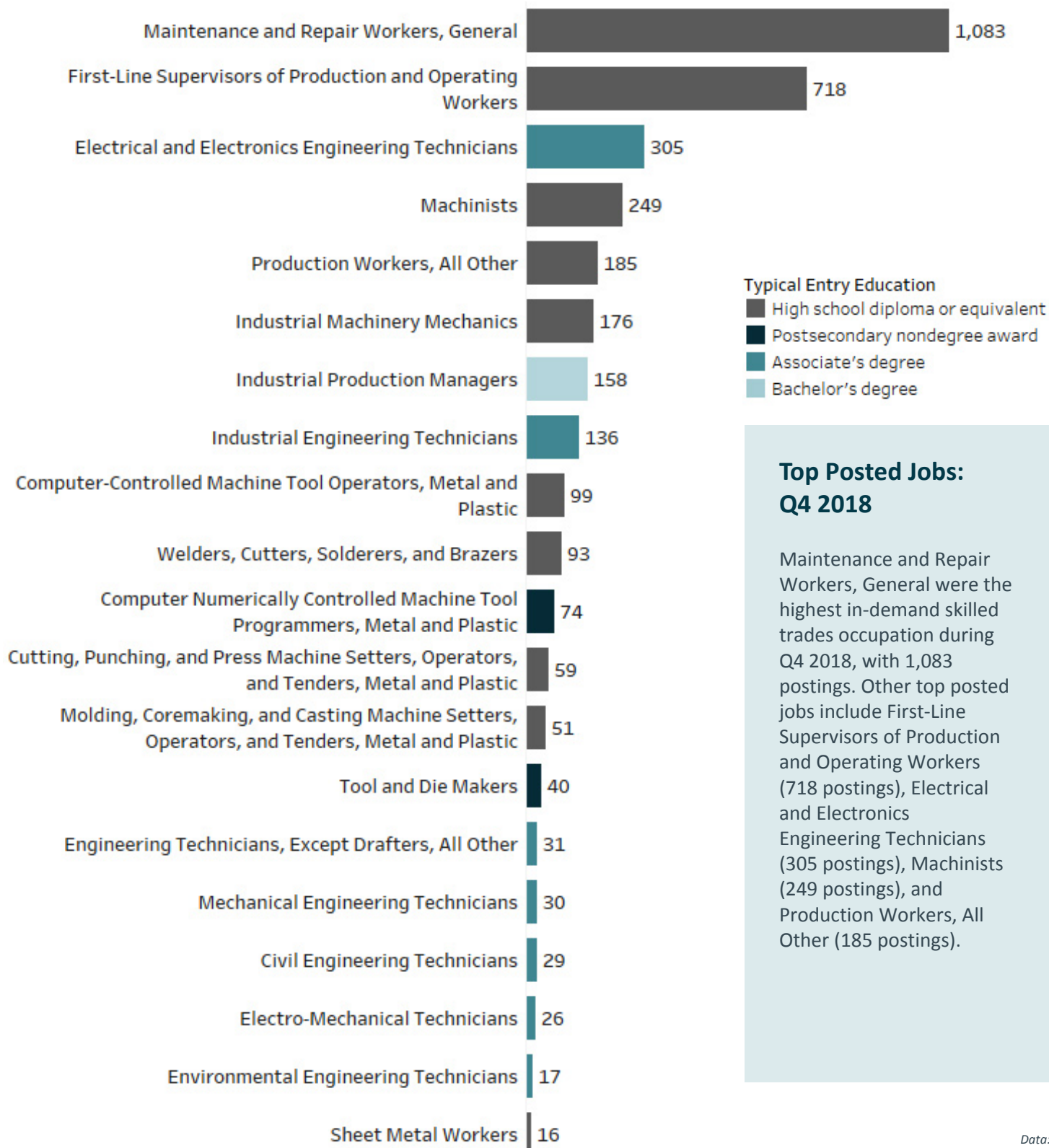
3,664 Skilled Trades Postings:
108 Fewer than in Q3 2018



Vocational Training Required
for Most Skilled Trades Jobs

Skilled Trades and Technicians Top Posted Jobs

Q4 2018



Top Posted Jobs: Q4 2018

Maintenance and Repair Workers, General were the highest in-demand skilled trades occupation during Q4 2018, with 1,083 postings. Other top posted jobs include First-Line Supervisors of Production and Operating Workers (718 postings), Electrical and Electronics Engineering Technicians (305 postings), Machinists (249 postings), and Production Workers, All Other (185 postings).



High Earning Potential for Industrial Production Managers



In-Demand Skilled Trades Certification: CDL

Skilled Trades and Technicians Wage Overview

Eight of the top ten in-demand skilled trades occupations have median wages above \$20 per hour according to the Bureau of Labor Statistics (BLS). Maintenance and Repair Workers, General, the top posted skilled trades job in Q4 2018, offers a median hourly wage of \$17.52, which translates to an annual salary of about \$36,000.

Wage Overview for Top Posted Skilled Trades and Technicians Jobs in Q4 2018

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	\$11.53	\$14.02	\$17.52	\$23.25	\$29.81
51-1011	First-Line Supervisors of Production and Operating Workers	\$19.89	\$25.39	\$33.57	\$43.51	\$54.42
17-3023	Electrical and Electronics Engineering Technicians	\$17.36	\$21.72	\$28.90	\$34.72	\$41.29
51-4041	Machinists	\$14.08	\$18.07	\$23.21	\$28.72	\$32.96
51-9199	Production Workers, All Other	\$10.98	\$16.16	\$19.76	\$24.21	\$35.71
49-9041	Industrial Machinery Mechanics	\$16.88	\$21.71	\$27.44	\$33.99	\$41.76
11-3051	Industrial Production Managers	\$37.90	\$47.40	\$59.37	\$73.91	\$94.02
17-3026	Industrial Engineering Technicians	\$19.32	\$23.13	\$27.71	\$34.44	\$40.73
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	\$14.47	\$17.58	\$22.86	\$26.90	\$32.27
51-4121	Welders, Cutters, Solderers, and Brazers	\$14.75	\$17.78	\$20.92	\$25.54	\$30.72

Data: Emsi, BLS | Analysis: Workforce Intelligence Network

In-Demand Technical Skills

- Continuous Improvement Process
- Machining
- HVAC
- Plumbing
- Lathes

In-Demand Foundational Skills

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

In-Demand Education Level*

- High School Diploma: 37.7%
- Associate Degree: 11.4%
- Bachelor's Degree: 14.7%
- Master's Degree: 2.0%

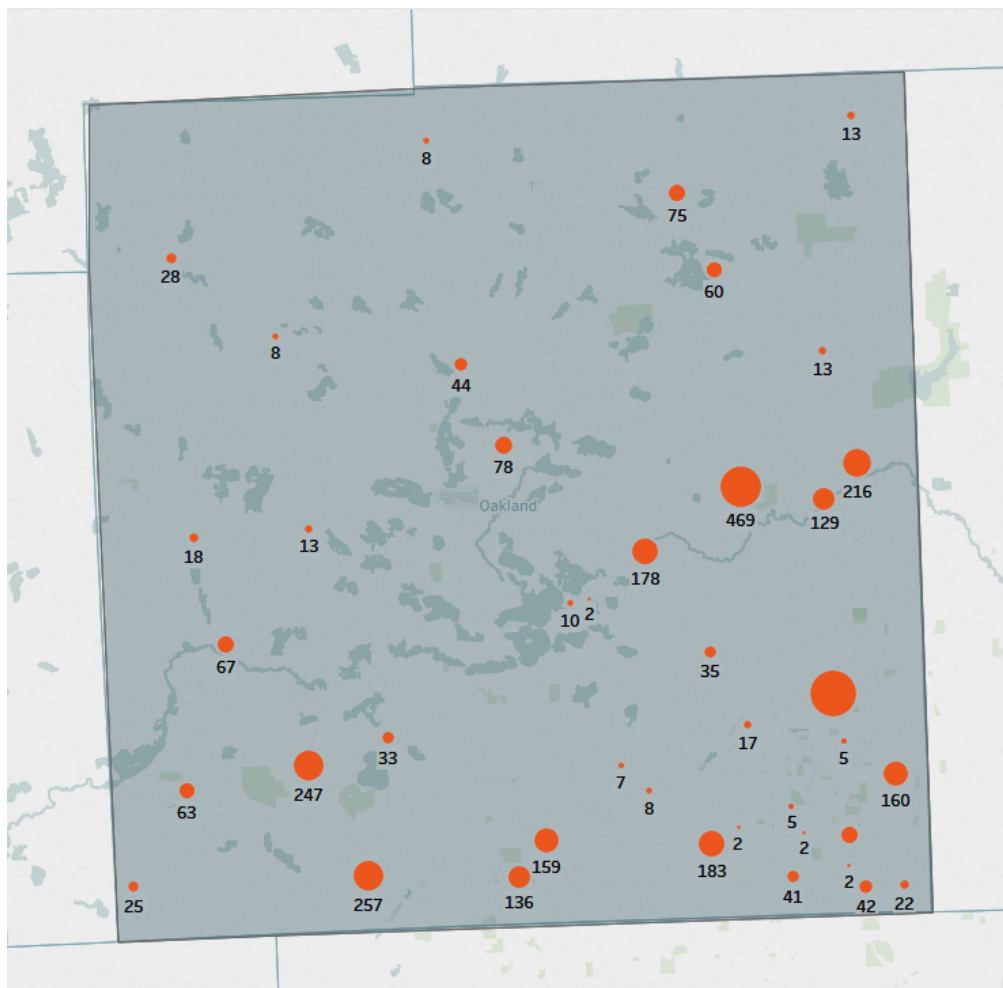
*Not all job postings indicate the required educational attainment level, therefore the percentages found here may not add up to 100 percent

In-Demand Certifications

- Commercial Driver's License (CDL)
- Certified Residential Specialist
- Operator Certification
- Certified Quality Engineer
- CompTIA Security+



Continuous Improvement Process and Management Skills are in High Demand



Top Posting Employers*

- McDonald's Corporation
- Express Services Inc
- Kelly Services, Inc.
- Shipt LLC
- American Axle & Manufacturing, Inc.
- Aerotek, Inc.
- Job Juncture, Inc
- Sentech Services
- The Home Depot Inc
- Start

Job Postings by City

1. Troy, MI: 600 Postings
2. Auburn Hills, MI: 469 Postings
3. Novi, MI: 257 Postings
4. Wixom, MI: 247 Postings
5. Rochester, MI: 216 Postings

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



TRANSPORTATION, DISTRIBUTION, AND LOGISTICS (TDL) OCCUPATION GROUP

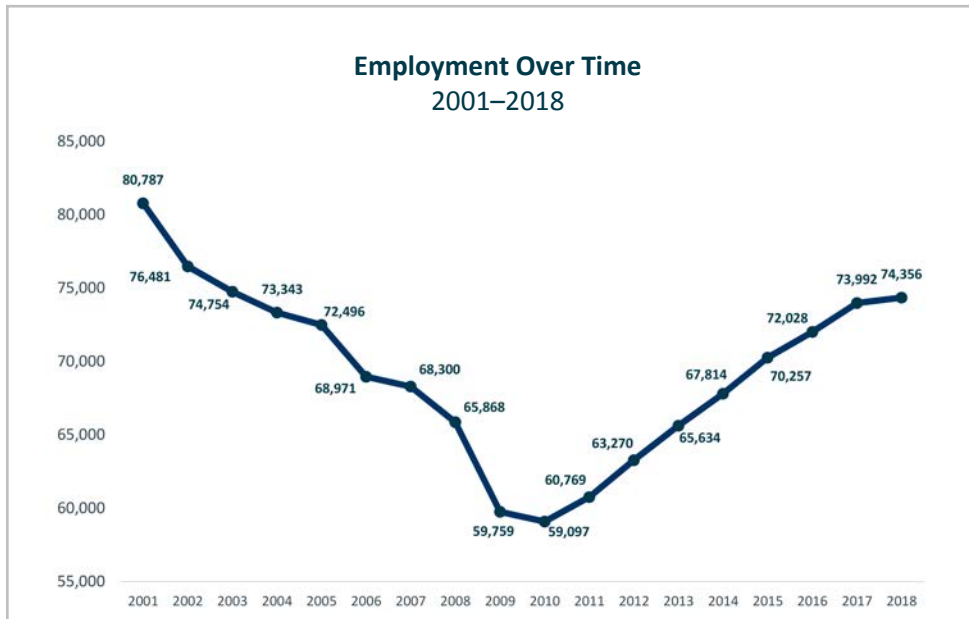
Oakland County | Q4 2018

Introduction

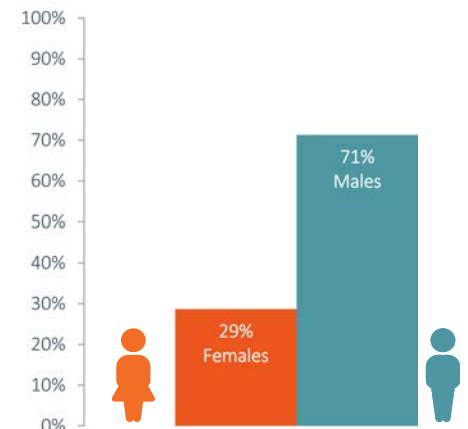
Transportation, distribution, and logistics (TDL) workers help move materials in an efficient manner, whether it is from one company to another or directly to consumers. Logistics workers range from materials movers to logistics analysts, coordinating and analyzing material and goods movement.



74,356
TDL Workers
0.5% Increase
from 2017



Worker Gender Demographics



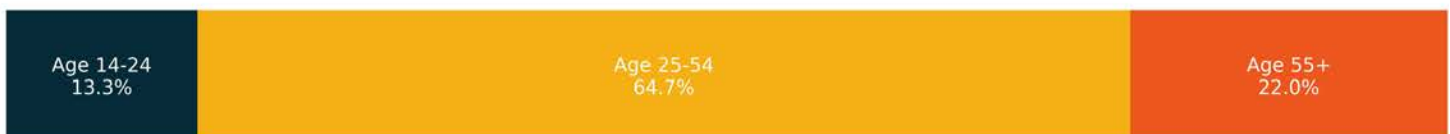
TDL Worker Demographics

According to the most recent Emsi data set available (2018), the TDL occupation group has a large workforce, employing nearly 75,000 individuals. These workers are 71 percent male and 71 percent white. Only thirteen percent of the workers in this occupation group are under the age of 24 compared to 22 percent that are 55 and older, indicating an aging TDL workforce.

Race and Ethnicity Demographics

70.7% White | **20.3% Black or African American** | **2.9% Asian**

Worker Age Demographics



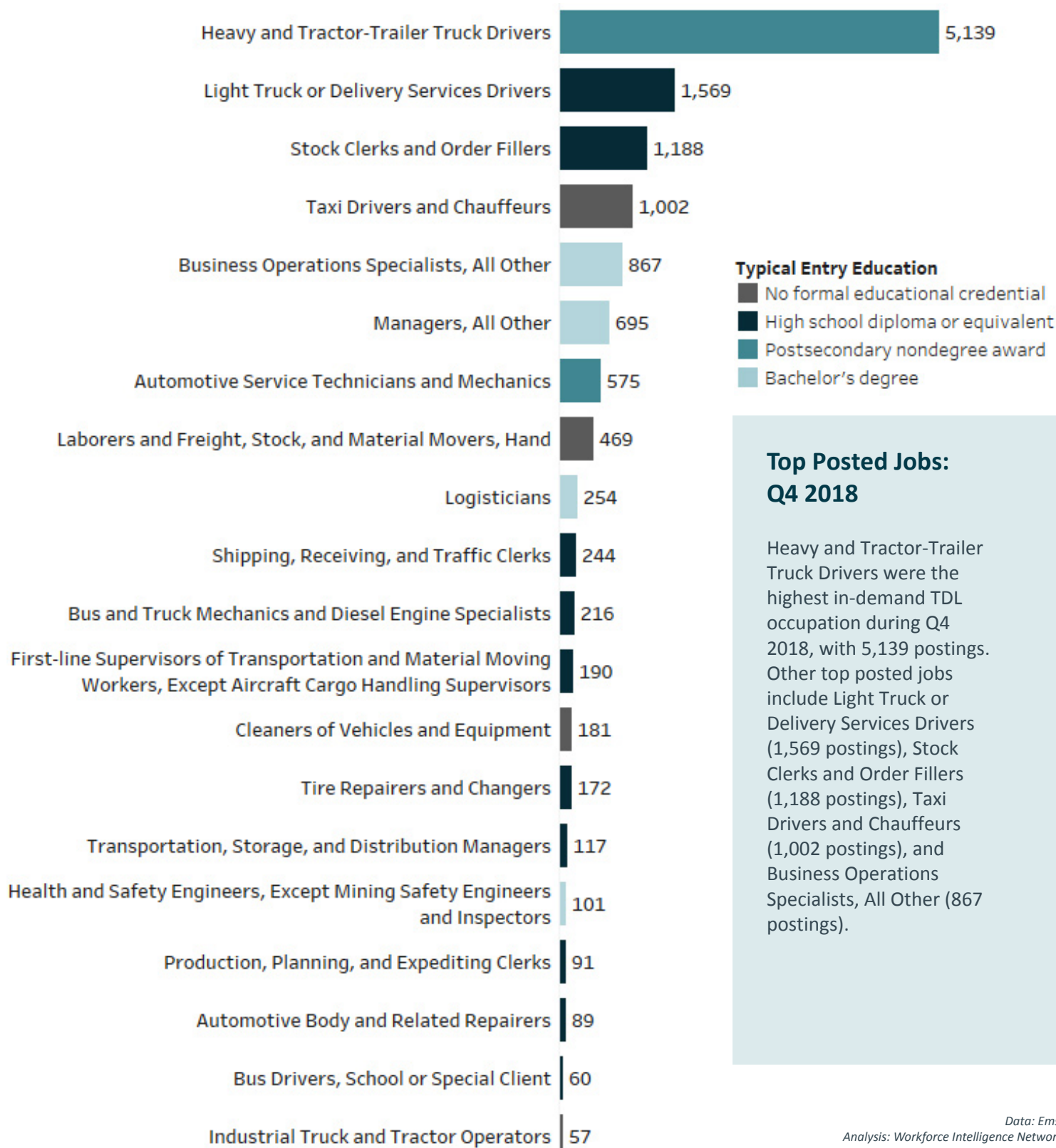


13,572 TDL Postings:
606 More than in Q3 2018



High School Diploma
Required for Most TDL Jobs

TDL Top Posted Jobs
Q4 2018





High Earning Potential for Managers, All Other



CDL: Most In-Demand TDL Certification

TDL Wage Overview

According to the Bureau of Labor Statistics (BLS), half of the top ten in-demand TDL occupations offer median wages of over the region's median of \$17.61 per hour. Heavy and Tractor-Trailer Truck Drivers, the top posted TDL job in Q4 2018, offers a median hourly wage of \$19.81, or an annual salary of about \$41,000. Logistics roles that require additional education, such as Business Operations Specialists, typically offer even higher wages.

Wage Overview for Top Posted TDL Jobs in Q4 2018

Occupation Code	Occupation Name	10th Percentile Wages	25th Percentile Wages	Median Wages	75th Percentile Wages	90th Percentile Wages
53-3032	Heavy and Tractor-Trailer Truck Drivers	\$13.33	\$16.55	\$19.81	\$24.89	\$30.34
53-3033	Light Truck or Delivery Services Drivers	\$9.65	\$11.33	\$15.57	\$21.28	\$27.42
43-5081	Stock Clerks and Order Fillers	\$9.47	\$9.93	\$11.64	\$15.15	\$19.17
53-3041	Taxi Drivers and Chauffeurs	\$9.37	\$9.75	\$10.91	\$12.72	\$16.05
13-1199	Business Operations Specialists, All Other	\$18.30	\$25.29	\$35.65	\$48.21	\$60.37
11-9199	Managers, All Other	\$30.68	\$39.32	\$50.26	\$62.61	\$79.26
49-3023	Automotive Service Technicians and Mechanics	\$10.12	\$13.57	\$23.49	\$30.00	\$36.46
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	\$10.29	\$11.82	\$14.42	\$17.94	\$21.74
13-1081	Logisticians	\$25.22	\$33.20	\$44.56	\$53.43	\$61.55
43-5071	Shipping, Receiving, and Traffic Clerks	\$11.47	\$13.75	\$16.55	\$20.27	\$25.76

Data: Emsi, BLS | Analysis: Workforce Intelligence Network

In-Demand Technical Skills

- Warehousing
- Merchandising
- Capital Markets
- Truckload Shipping
- Customer Satisfaction

In-Demand Foundational Skills

- Management
- Communications
- Operations
- Customer Service
- Sales

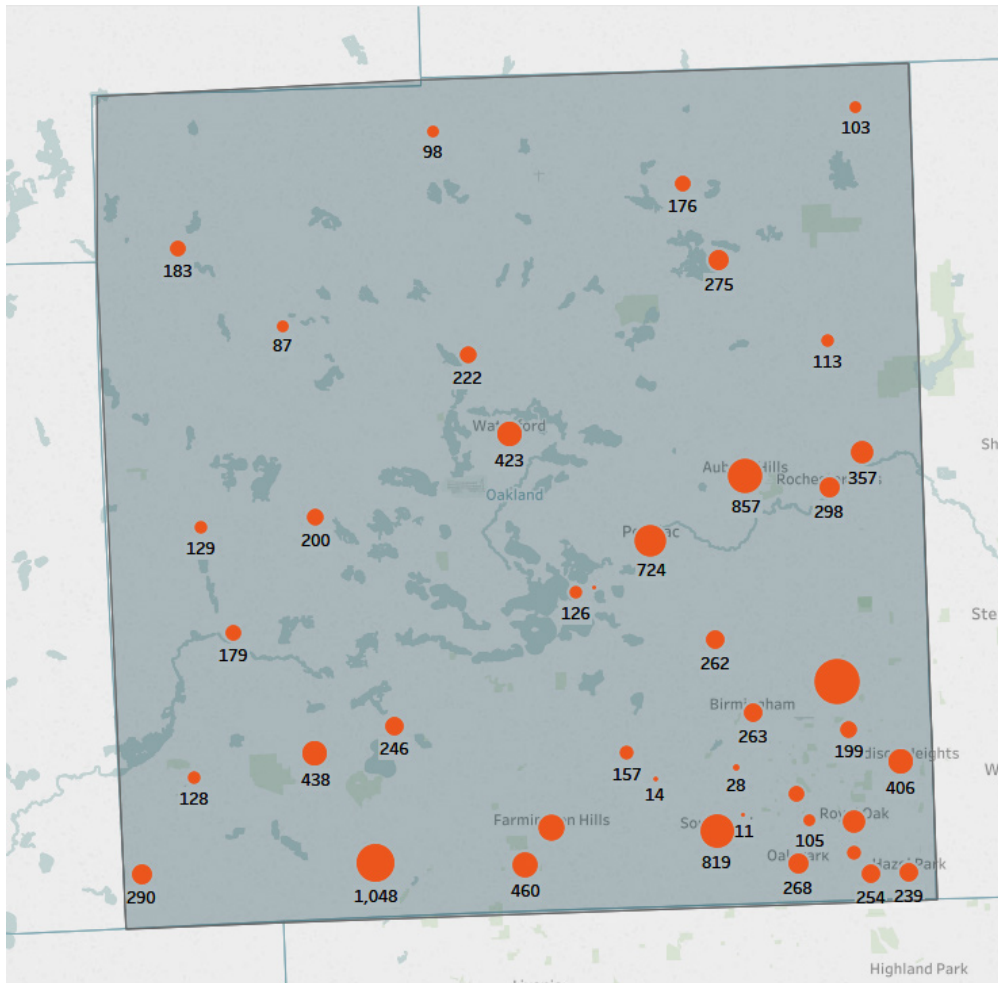
In-Demand Education Level*

- High School Diploma: 15.9%
- Associate Degree: 1.6%
- Bachelor's Degree: 9.3%
- Master's Degree: 2.6%

*Not all job postings indicate the required educational attainment level, therefore the percentages found here may not add up to 100 percent

In-Demand Certifications

- Commercial Driver's License (CDL)
- Transportation Worker Identification Credential (TWIC) Card
- Project Management Professional Certification
- Certified Benefits Professional
- CompTIA Security+



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

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