

LIFT: Lightweight Workforce Quarterly Summary

MICHIGAN, Q3 2018



Employment in lightweighting-related occupations continues to climb, corresponding with continued employer demand. Demand for lightweighting-related skills grew by 14.0 percent into Q3 2018. There were 63,940 job postings during Q3 2018.

736,230

workers in lightweighting-related occupations in Michigan (2018)



increase in demand for lightweighting skills



nine consecutive years of employment growth

★ TOP 10 OCCUPATIONS IN DEMAND STATEWIDE

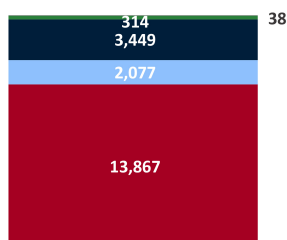
Occupation	Job Postings
Industrial Engineers	6,995
Maintenance and Repair Workers, General	6,459
Mechanical Engineers	5,432
First-Line Supervisors of Production and Operating Workers	4,448
Electrical Engineers	2,513
Laborers and Freight, Stock, and Material Movers, Hand	2,186
Helpers--Production Workers	1,968
First-Line Supervisors of Mechanics, Installers, and Repairers	1,964
Inspectors, Testers, Sorters, Samplers, and Weighers	1,614
Production Workers, All Other	1,610

Most Skilled Trades jobs are open to entry-level workers willing to undertake some post-secondary training in high-demand skillsets. A certificate in welding or quality assurance can lead candidates into successful Skilled Trades careers.

Administration workers have access to ample entry-level opportunities for those with certifications in quality engineering, safety, or management. A bachelor's degree accompanied by sales engineering or logistics experience may open higher paying positions with Michigan manufacturers.

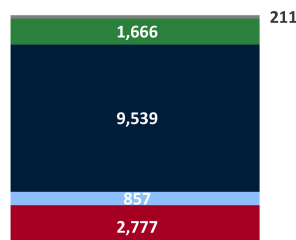
Over half (64 percent in Q3 2018) of lightweighting-related Engineering and Design job postings in Michigan require a bachelor's degree. Candidates with an undergraduate degree in mechanical or electrical engineering and automation and prototype development skills can earn competitive wages in Michigan.

☑ IN-DEMAND EDUCATION AND CERTIFICATIONS BY SUBGROUP



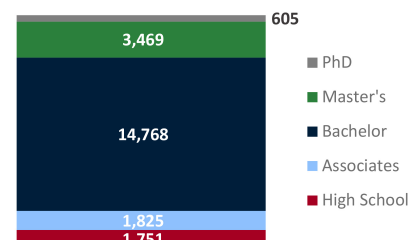
SKILLED TRADES

- ASQ Certified
- Certified Welder
- Certified Quality Auditor
- Certified Welding Inspector
- Certified Facility Manager



ADMINISTRATION

- ASQ Certified
- Master of Business Administration
- Certified Quality Auditor
- Certified Safety Professional
- Certified Reliability Engineer



ENGINEERS AND DESIGNERS

- Certified Quality Engineer
- Professional Engineer
- ASQ Certified
- Certified Quality Auditor
- Certified Quality Manager

📍 STATEWIDE POSTINGS BY CITY

Lightweighting-related postings were widespread across the lower peninsula of Michigan, though most concentrated in the southeast. Detroit reported the most Q3 postings, with 5,090 ads. Grand Rapids had the next highest demand, with 3,541 postings, followed by Auburn Hills (2,582 postings) and Troy (2,478 postings).

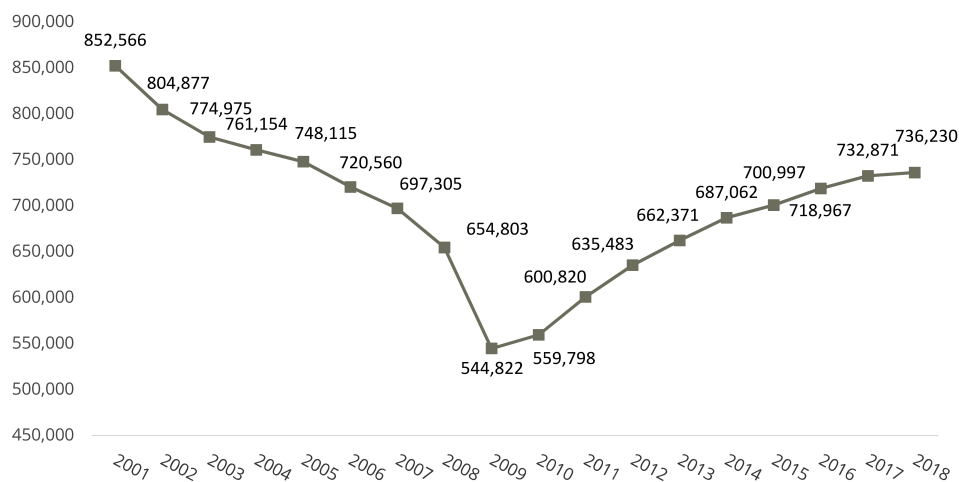
★ LOCAL SPOTLIGHT

The state is a hotspot for transportation equipment manufacturing and design. It features an unusually high location quotient, or industry concentration, of well-paying and in-demand occupations such as Mechanical Engineers, Engine and Other Machine Assemblers, Model Makers, and Commercial and Industrial Designers.

✂ LIGHTWEIGHTING-RELATED EMPLOYMENT OVER TIME

Michigan, 2012 - 2018

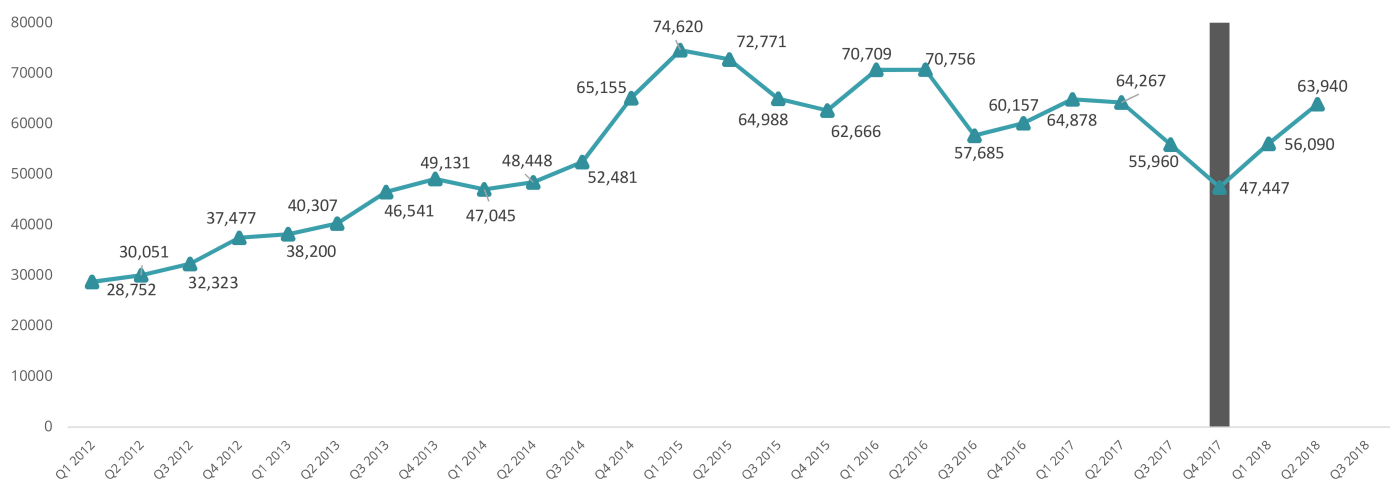
Employment in lightweighting-related occupations grew by about 4,000 employees between 2017 and 2018. Since the lowest point of the Great Recession in 2009, employment has grown steadily (recovering nearly 200,000 workers), and has surpassed 2006 levels.



✂ LIGHTWEIGHTING-RELATED JOB POSTING OVER TIME

Michigan, Q1 2012 - Q3 2018

Employer demand for lightweighting-related skills grew by 14.0 percent into Q3 2018. There were 63,940 job postings during Q3 2018, over double 2012 levels of demand. Due to recent changes in data de-duplication methodology, employer demand reported before 2018 appears somewhat higher than more recent levels.



Lightweight Innovations for Tomorrow (LIFT) is a public-private partnership that develops and deploys advanced lightweight materials manufacturing technologies and implements education and training programs to prepare the workforce. Learn more here: <https://lift.technology/>.

