

EDUCATION PIPELINE

The automotive and mobility industry depends on top engineering graduates to power Michigan's workforce. This highly skilled talent pipeline is moving the industry forward into the next decade and growing the state's economy.



8,600+

engineering degrees were awarded by Michigan education institutions in 2018, with 39% master's degrees or higher



16

universities and colleges have nationally ranked undergraduate engineering programs, and four have nationally ranked graduate programs



138,585

total degrees were awarded by state educational institutions in 2018

Top 10 Engineering Graduates

Institutions	City	Degrees Conferred (2018)	Growth % Year-Over-Year	IPEDS Tuition and Fees (2018)
University of Michigan	Ann Arbor	2,658	▲ 5.8%	\$16,225
Michigan Technological University	Houghton	1,168	▲ 1.7%	\$16,800
Michigan State University	East Lansing	939	▲ 4.6%	\$15,555
Wayne State University	Detroit	748	▲ 10.0%	\$14,175
University of Michigan	Dearborn	537	▲ 15.0%	\$13,110
Oakland University	Rochester	443	▲ 8.3%	\$13,916
Western Michigan University	Kalamazoo	412	▼ 4.6%	\$12,483
Lawrence Technological University	Southfield	407	▼ 10.5%	\$33,570
Kettering University	Flint	352	▲ 5.7%	\$40,236
University of Detroit Mercy	Detroit	180	▲ 130.8%*	\$28,000

*University of Detroit Mercy announced decreased tuition in 2018.

Community College Mobility Centers



Advanced Transportation Center



Center for Advanced Automotive Technology



Source: Square One Network

2030 Detroit Equitable Mobility

A joint project of the College for Creative Studies, Design Core Detroit, Ford Motor Company, and GTB, this effort focused on mobility equity in Detroit and creating solutions for how mobility impacts health, employment, education, and socialization.

CyberTruck Challenge

Government, industry, and security researchers from all over the world join students from 20 universities annually to address challenges in heavy vehicle cybersecurity and talent development.

FIRST Robotics

568 high school teams
1,026 early elementary school teams
 Michigan ranks first in the number of high school and elementary school teams in the country. The global FIRST Robotics championship will be held annually in Detroit through 2020.

Formula SAE Michigan Competition

2,500+ students
 Held at Michigan International Speedway, students construct a single-seat race car with the best overall design, construction, performance, and cost.

Intelligent Ground Vehicle Competition

47 teams
 The annual competition at Oakland University between students encompasses the latest technologies, from electrical engineering and computer science to intelligent vehicle systems.

Michigan Mobility Institute

The initiative of the Detroit Mobility Lab has partnered with Wayne State University to create a mobility center as part of the college of engineering. The institute will advise on mobility curriculum and offer Master of Science degrees in robotics and mobility.

SAE CyberAuto Challenge

Students receive hands-on experience and learn from the best cyber researchers, hackers, automotive engineers, and academia to advance the next generation of cyber security experts.

Square One Network

12,000 students
500 teachers
 Square One Network works to inspire students toward college and career pathways in mobility through the annual Autonomous Innovative Vehicle Design Challenge at Kettering University. Students engineer an autonomous vehicle utilizing next-generation technology, GPS, and sensors.

Higher-Education Research Leadership

8th in the nation

for higher education R&D performance

\$2.5 billion

in higher education R&D

\$424 million

or 17% of Michigan's higher education R&D is dedicated to engineering

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