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

<table>
<thead>
<tr>
<th>Institutions</th>
<th>City</th>
<th>Degrees Conferred (2018)</th>
<th>Growth % Year-Over-Year</th>
<th>IPEDS Tuition and Fees (2018)</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Michigan</td>
<td>Ann Arbor</td>
<td>2,858</td>
<td>▲ 5.8%</td>
<td>$15,225</td>
</tr>
<tr>
<td>Michigan Technological University</td>
<td>Houghton</td>
<td>1,168</td>
<td>▲ 3.7%</td>
<td>$18,800</td>
</tr>
<tr>
<td>Michigan State University</td>
<td>East Lansing</td>
<td>939</td>
<td>▲ 4.6%</td>
<td>$15,595</td>
</tr>
<tr>
<td>Wayne State University</td>
<td>Detroit</td>
<td>748</td>
<td>▲ 10.0%</td>
<td>$14,175</td>
</tr>
<tr>
<td>University of Michigan</td>
<td>Dearborn</td>
<td>537</td>
<td>▲ 15.0%</td>
<td>$13,110</td>
</tr>
<tr>
<td>Oakland University</td>
<td>Rochester</td>
<td>443</td>
<td>▲ 8.3%</td>
<td>$13,916</td>
</tr>
<tr>
<td>Western Michigan University</td>
<td>Kalamazoo</td>
<td>412</td>
<td>▼ 4.8%</td>
<td>$12,483</td>
</tr>
<tr>
<td>Lawrence Technological University</td>
<td>Southfield</td>
<td>467</td>
<td>▼ 10.5%</td>
<td>$33,570</td>
</tr>
<tr>
<td>Kettering University</td>
<td>Flint</td>
<td>352</td>
<td>▼ 5.7%</td>
<td>$40,236</td>
</tr>
<tr>
<td>University of Detroit Mercy</td>
<td>Detroit</td>
<td>180</td>
<td>▲ 130.8%※</td>
<td>$28,000</td>
</tr>
</tbody>
</table>

※University of Detroit Mercy announced increases in tuition in 2018

Community College Mobility Centers

Washtenaw Community College
Advanced Transportation Center

Macomb Community College
Center for Advanced Automotive Technology
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
1,626 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 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 of 17% of Michigan's higher education R&D is dedicated to engineering

Michigan Is Automobility 18