TECH DAY 2015

13 DEPARTMENTS TO EXPLORE

Aerospace Engineering
Climate and Space Sciences and Engineering
Biomedical Engineering
Chemical Engineering
Civil Engineering
Computer Engineering
Electrical Engineering
Environmental Engineering
Industrial and Operations Engineering
Materials Science and Engineering
Mechanical Engineering
Naval Architecture and Marine Engineering
Nuclear Engineering and Radiological Sciences
# Table of Contents

University of Michigan | College of Engineering

- About Tech Day .................................................. 2
- Why Michigan? .................................................... 3
- Student Schedule ................................................ 4
- Family Schedule .................................................. 5
- Why Is Michigan Different? ................................. 6
- What Do Engineers Do? ......................................... 6
- Engineering As a Career ....................................... 7
- Department Rankings ........................................... 8
- Applying to Michigan ........................................... 9
- Website Details ................................................... 10
- Acknowledgments ............................................... 10
About Tech Day

Welcome to Michigan Engineering! Tech Day is planned and organized by 23 dedicated engineering students. We have spent hundreds of hours preparing for this event to ensure that you have a wonderful experience at the place we call home. We invite you to provide feedback throughout the day and in our post-event survey.

Welcome again, and GO BLUE!
Why Michigan?

9 top-ten engineering departments

95 top-ranked engineering programs

State of the art facilities

More than 230 tenured faculty in engineering

Michigan Engineers make a difference in the world

The University of Michigan has over 43,000 students

Students are encouraged to explore different majors

The University of Michigan is over 500,000 alumni strong
Student Schedule

8:45 am - 9:30 am    Check-In
9:30 am - 10:10 am   Opening Site Presentation
10:20 am - 11:10 am  Exhibits
11:15 am - 12:00 pm  Lunch
12:10 pm - 1:20 pm   Design Competition or Majors Fair/Student Panel
1:30 pm - 2:40 pm    Design Competition or Majors Fair/Student Panel
Family Schedule

8:45 am - 9:30 am  Check-In
9:30 am - 10:10 am  Opening Site Presentation
10:20 am - 11:10 am  Financial Aid & Admissions
11:20 am - 12:10 pm  Exhibits
12:15 pm - 1:00 pm  Lunch
1:10 pm - 2:00 pm  Student Panel
2:10 pm - 2:40 pm  Closing Reception
Why is Michigan Different?

At the University of Michigan, students are encouraged to work together and take risks. Michigan offers a diverse and interdisciplinary environment where future engineers are challenged each day to solve the world’s toughest problems.

What Do Engineers Do?

The word “engineer” can simply be defined as “one who practices ingenuity”. Engineers are people who are inventive, progressive, and resourceful. Their work is the link between scientific discoveries and the commercial applications that meet societal and consumer needs.

Engineering is one of the more challenging, yet rewarding fields of study today; but what do engineers actually do?

Engineers have incredible jobs and create amazing things. Engineers are involved with:

- Designing roller coasters
- Defying gravity
- Creating prosthetic jaws and other artificial body parts
- Building fuel injection systems
- Organizing Hollywood stunts
- Developing video games for autism therapy
- Managing large scale projects and feasibility studies
- Manufacturing sustainable systems for developing nations
- Analyzing patterns to predict future trends
- Simulating the risks and benefits of a plan in a virtual environment

…and so much more!
Recruiters say Michigan Engineering graduates are among the most qualified candidates for jobs. Our employment stats and opportunities both on- and off-campus confirm that.

**Thousands** of on-campus interviews and several **major career fairs** held each year—just for engineering students.

**Hundreds** of internships and co-ops secured by each class pre-graduation, with monthly salaries as high as **$10,000**.

2013/14 graduates who accepted a full-time job within a year of their graduation earned salaries as high as **$110,000** for bachelors and **$150,000** for master’s degrees.
### Undergraduate Engineering Rankings

(U.S. News & World Report, Fall 2014)

<table>
<thead>
<tr>
<th>Field</th>
<th>Ranking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace Engineering</td>
<td>2</td>
</tr>
<tr>
<td>Biomedical Engineering</td>
<td>8</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>12</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>8</td>
</tr>
<tr>
<td>Computer Engineering</td>
<td>7</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>5</td>
</tr>
<tr>
<td>Environmental Engineering</td>
<td>4</td>
</tr>
<tr>
<td>Industrial and Operations Engineering</td>
<td>2</td>
</tr>
<tr>
<td>Materials Science and Engineering</td>
<td>4</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

*Note: U.S. News does not rate Climate and Space Sciences and Engineering, Naval Architecture and Marine Engineering and Nuclear Engineering and Radiological Sciences.*

More information about Michigan Engineering is available at [http://www.engin.umich.edu/college/info/prospective](http://www.engin.umich.edu/college/info/prospective)
Applying to Michigan

Michigan uses the Common Application for first year admissions. The best advice is to get your application in before the early-action deadline. It not only gives the University time to respond to your questions during the process, but you’ll also be in a great position for scholarships. The University’s goal is to make the application process as easy as possible for you. If you are a transfer student, please contact the Office of Recruitment and Admissions for information about applying and application deadlines.

**Early Action Application Deadline**  
November 1, 2015

**Regular Decision Application Deadline**  
February 1, 2016

Michigan is a leader in developing highly sought-after engineering talent. The diversity of the student body at Michigan Engineering—now among the most diverse engineering schools nationwide—enhances the intellectual experience for all students on campus, and creates an atmosphere for learning that lives up to the Michigan tradition of “Leaders and Best.”
The Tech Day Planning Committee would like to thank everyone involved in the creation of this publication including:
Alexander Davis, Breoshshala Martin, Meghan Jacobs, Holly Johnston and Katrina Cribbins

A very special thanks goes to Bryan Enochs and Jennifer Wegner for helping make this publication a success.

More Information
More information about the College of Engineering and specific departments is available at:

engin.umich.edu/college/departments/

Admissions information:

engin.umich.edu/college/admissions/

Financial Aid information:

engin.umich.edu/college/admissions/finances