BACHELORS MECHANICAL ENGINEERING

TOP INDUSTRIES

1. Automobiles & Parts
2. Technology Hardware & Equipment
3. Aerospace & Defense
4. Industrial Engineering & Transportation
5. Healthcare

SAMPLE JOB TITLES

- Applications Engineer
- Consultant
- Controls Engineer
- Design Engineer
- Manufacturing Engr.
- Mechanical Design Engineer
- Mechanical Engineer
- Process Engineer
- Product Development Engineer
- Project Manager
- Quality Engineer
- Systems Engineer

TOP HIRING COMPANIES

CATERPILLAR®
stryker
Ford
RIVIAN
TESLA
gm
SPACEX
P&G
REMORA

SAMPLE HIRING COMPANIES

- Amazon Web Services
- BAE Systems
- Boeing
- BP
- General Dynamics Electric Boat
- General Electric
- American Axle & Manufacturing
- Bosch
- Boston Consulting Group
- Collins Aerospace
- Daimler Truck
- Denso
- Epic
- Eli Lilly
- FANUC
- Goldman Sachs
- Guidehouse
- Honda
- INTERTEK
- Lear
- Medtronic
- Meta Orbital Effects
- Microsoft
- Multiply Labs
- NASA
- NextEra Energy
- Northrop Grumman
- Nostrum Energy
- Pratt & Whitney
- Roush
- Schlumberger
- Siemens
- Stellantis
- STEELCASE
- Subaru
- Texas Instruments
- ThermoLift
- Texas Instruments
- Textron
- Toyota
- University of Michigan
- Yanfeng

FULL TIME ANNUAL SALARY

Average: $79,114

Min	Median	Max
$46,000	$77,000	$116,000

INTERN MONTHLY SALARY

Average: $4,407

Min	Median	Max
$2,600	$4,247	$9,899

Industry, Company, and Salary Data are from 2021-2022. Job titles are from 2020-2022.
Visit career.engin.umich.edu/career/salary-info for more comprehensive data.

MICHIGAN ENGINEERING
ENGINEERING CAREER RESOURCE CENTER
UNIVERSITY OF MICHIGAN

career.engin.umich.edu
ecrc-info@umich.edu
734-647-7160

BACHELORS MECHANICAL ENGINEERING

SAMPLE ELEVATOR PITCH

Hi, I'm NAME. I'm a junior studying Mechanical Engineering and I'm interested in your automotive internship.

I've spent the last two summers in an automotive powertrain lab researching technologies to increase engine efficiency. I have also served for two years as an officer in the Society of Women Engineers.

I'm hoping to apply my research and leadership skills in your automotive program, specifically on your new model vehicles. Can you tell me more about it?

SAMPLE IMPACT STATEMENT

Before – *Designed CAD model of component*
After – *Designed CAD model of component and performed finite element analysis to verify it would withstand the loading conditions experienced during use despite revised geometry*

KEY COURSES

ME 250 – Design & Manufacturing 1; design, manufacture, & assemble a robot; use manual controls to navigate the bot through an obstacle course; exposure to CAD & basic machine shop techniques
ME 350 – Design & Manufacturing 2; mechatronics focused; design, manufacture, and assemble, as well as code an Arduino to remotely operate the system
ME 395/495 – Lab 1/Lab2; required lab based courses; given task letters and must perform experiments to provide recommendations to theoretical companies
ME 450 – Design & Manufacturing 3; student teams work on varying projects; must be able to articulate what the problem was and how their solution filled this need

KEY SKILLS

Solidworks – CAD software that is utilized in at least 3 courses if not more courses and projects
MATLAB – used in Engr 101 and multiple mechanical engineering courses for mathematics and coding
Arduino – used during ME 350 to control the robotic system
Simulink – model & solve controls and dynamic systems during ME 360 & other dynamics/controls courses
MSC Adams – model and analyze the linkage mechanism designed in ME 350
Labview – collect and analyze data during experiments conducted in ME 395 & ME 495
Equipment – common pieces of equipment are: mill, lathe, drill press, laser cutter, 3D printer

SAMPLE EXTRACURRICULARS

American Society of Mechanical Engineers (ASME) **Pi Tau Sigma (PTS)** - Honors Society
Student Teams - MRacing Formula SAE, Solar Car, SAE Baja Racing, Supermileage, Bluelab