

BACHELORS MECHANICAL ENGINEERING

TOP INDUSTRIES

1. Automobiles & Parts
2. Aerospace & Defense
3. Industrial Engineering & Transportation
4. Civil & Construction
5. Healthcare

SAMPLE JOB TITLES

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

TOP HIRING COMPANIES



SAMPLE HIRING COMPANIES

- Amazon Web Services
- American Axle & Manuf.
- Anheuser Busch InBev
- Arc Boat Company
- BorgWarner
- Bosch
- bp
- Burns & McDonnell
- Comau
- DTE Energy
- Ecolab
- Eli Lilly
- FANUC
- First Solar
- General Electric
- General Dynamics
- Gentex Corporation
- Gulfstream Aerospace
- Hecate Energy
- Hexagon Manuf.
- Honeywell
- Illinois Tool Works
- Lear
- McKinsey
- Medtronic
- NASA
- Nexteer
- NextEra Energy
- Nissan
- Northrop Grumman
- Nostrum Energy
- Pfizer
- Pratt & Whitney
- Pratt Miller
- Procter & Gamble
- Radiant Nuclear
- Rivan Automotive
- Roush
- Sasche Construction
- Schlumberger - SLB
- Siemens
- Steelcase
- Stellantis
- Stryker
- Subaru
- Sun Mobility
- Tenneco
- Texas Instruments - TI
- Toyota
- VAyu
- Wade Trim Group
- Whirlpool
- Williams International
- Zeiss

FULL TIME STARTING ANNUAL SALARY

Average: \$81,587

Min	Median	Max
\$60,000	\$79,600	\$143,000

INTERN HOURLY SALARY

Average: \$25.58

Min	Median	Max
\$15	\$25	\$56

Data above are from Academic Year (AY) 2023.
Visit career.engin.umich.edu/career/salary-info for more comprehensive data.

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