

BACHELORS BIOMEDICAL ENGINEERING

TOP INDUSTRIES

1. Healthcare
2. Software & Computer Services
3. Consulting
4. Technology Hardware & Equipment
5. Government/Military

SAMPLE JOB TITLES

- Associate Scientist
- Biomedical Engineer
- Clinical Specialist
- Consulting Analyst
- Design Engineer
- Product Development Engineer
- Project Engineer
- Quality Engineer
- R&D Engineer
- Regulatory Affairs Specialist
- Technical Solutions Engineer

TOP HIRING COMPANIES



SAMPLE HIRING COMPANIES

- Abiomed
- BAE Systems
- Biosense Webster
- Bosch
- Boston Medical Center
- Boston Scientific
- Brigham and Women's Hospital
- Bristol Myers Squibb
- Chevron
- CONMED Corporation
- Deloitte
- DePuy Synthes
- Disher
- Eli Lilly
- Entegris
- IBM
- Kite Pharma
- KPMG
- L'Oreal
- Labcorp Drug Development
- MathWorks
- McKinsey & Co.
- Medtronic
- MicroVention-Terumo
- MIM Software
- NASA Langley
- NOTA Laboratories
- Oshkosh Corporation
- SENS Research Foundation
- Treetown Tech
- Trinity Life Sciences
- University of Texas
- Veeva Systems

FULL TIME ANNUAL SALARY

Average: \$68,944

Min
\$43,000

Median
\$73,000

Max
\$90,000

INTERN MONTHLY SALARY

Average: \$3,960

Min
\$2,167

Median
\$4,030

Max
\$5,500

Industry, Company, and Salary Data are from 2021-2022. Job titles are from 2019-2022.
Visit career.engin.umich.edu/career/salary-info for more comprehensive data.



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SAMPLE ELEVATOR PITCH

Hi my name is [NAME] and I am currently a [year in school] studying Biomedical Engineering at the University of Michigan.

In my biomedical instrumentation class, I have learned about designing and building several medical devices on a breadboard including an electrocardiogram and pulse oximeter, which led to my interest in working in medical device development. I am also involved with a project team through M-Heal where I get to use CAD software to improve our device design.

What interested me about your position is the ability to apply my technical skills learned from these experiences to testing a novel medical device for clinical use. Would you please tell me more about the position?

SAMPLE IMPACT STATEMENT

Before - Analyzed potential knee replacement materials

After - Performed finite element analysis on various potential knee replacement materials to determine which was the most likely to survive the strain of repeated use and reported the results to supervisory board of five doctors

KEY COURSES

BME 211/221/231 - Circuits and Systems / Biophysical Chemistry and Thermodynamics / Biomechanics; These courses provide fundamental knowledge for upper level classes and inform your elective choices

BME 350 - Introduction to BME Design; learn MATLAB, Solidworks, and COMSOL as well as complete your first in-class design project with a team

BME 458 - Biomedical Instrumentation; design and build medical devices on a team

BME 418/419 - Quantitative Cell Biology/Physiology; Provide fundamental biology and physiology knowledge from an engineering/mathematical perspective

KEY SKILLS

MATLAB - Coding language often used in medical device design, imaging, etc.

Cell culture and microscopy - Common research skills (tissue engineering, mechanobiology, biomaterials)

Labview - Collect and analyze electrical signal data

Equipment - Breadboard/electronics, materials testing machine

SAMPLE EXTRACURRICULARS

Biomedical Engineering Society (BMES)

Biophysics Club

Beta Mu Epsilon - Biomed Eng Prof Frat

Microfluidics in Biomedical Sciences

Design Teams - MedLaunch, M-Heal, Sling Health

