

BACHELORS BIOMEDICAL ENGINEERING

TOP INDUSTRIES

1. Healthcare
2. Consulting
3. Software & Computer Services
4. Education/Academia
5. Government/Military

SAMPLE JOB TITLES

- Associate Consultant
- Clinical Science Engineer
- Design Engineer
- Field Clinical Specialist
- Junior Bioinformatician
- Medical Safety Engineer
- Postbac Researcher
- Product Development Engineer
- Project Manager
- Quality Engineer
- R&D Engineer
- Systems Engineer

TOP HIRING COMPANIES



SAMPLE HIRING COMPANIES

- AbbVie
- Abiomed
- Amgen
- Anheuser Busch InBev
- Apple
- Bastion
- BD - Becton Dickinson
- Capital One
- COAPT
- Cognex
- Delphinus Medical
- E Technologies Group
- Edwards Lifesciences
- Eli Lilly
- EnFocus
- Enumera Molecular
- Ethicon
- EY
- Fidelity Investments
- Gore & Associates
- Insight2Profit
- Intermountain Health
- International Institute for the Brain (iBrain)
- Intertek
- Intuitive Surgical
- Materialise
- Maze Therapeutics
- MC3 Cardiopulmonary
- MED-ALLY
- Memorial Sloan Kettering Cancer
- MIM Software
- New York Genome Center
- Qral Group
- Raytheon - RTX
- ResMed
- Sequence
- STERIS
- Texas Instruments - TI
- TreeTown Tech
- UFP Technologies
- Wacker Chemical
- Zoetis

FULL TIME STARTING ANNUAL SALARY

Average: \$69,746

Min	Median	Max
\$33,000	\$74,500	\$110,000

INTERN HOURLY SALARY

Average: \$25.08

Min	Median	Max
\$12	\$25	\$51

Industry, Company, and Salary Data are from Academic Year (AY) 2023. Job titles are from AY 2022 - 2023. 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)

Microfluidics in Biomedical Sciences

Biophysics Club

Design Teams - MedLaunch, M-Heal, Sling Health

Beta Mu Epsilon - Biomed Eng Prof Frat

