Biomedical Engineering (Minor)

Create the next generation of medical devices by bridging the gap between engineering and medicine for better patient outcomes.

Today’s health issues will be solved with tomorrow’s diagnosis, monitoring, surgical and therapy technologies. With this undergraduate minor, you’ll build a foundation for entering the biomedical device field.

Program Snapshot

- **Program type:** Minor
- **Format:** On-campus
- **Est. time to complete:** 2-3 years
- **Credit hours:** 27

Why Study Biomedical Engineering at UND?

From amazing medical technology featured in sci-fi movies, to the futuristic-like devices in today’s most advanced hospitals, it will take experts that can fuse engineering and medicine to imagine tomorrow’s innovations. Biomedical engineers create life-saving devices that can create artificial organs, automate monitoring of vitals, assist in surgeries, simulate procedures and many other exciting medical advancements once considered science fiction.

Our program covers biomedical topics in a variety of areas: biomechanics, biomaterials, bio-instrumentation, multi-scale, bio-simulation and modeling, bio-signals and other emerging areas.

Build your knowledge to help launch the next generation of medical breakthroughs. Most importantly, you’ll gain the foundation to pursue further education and research to help create new medical devices that can help improve the healthcare outcomes of lives all around the world.

Priority Application Deadlines

- **FALL:** Feb. 1* (freshmen) | April 15* (transfer students)
- **SPRING:** Dec. 1
- **SUMMER:** April 1

*academic scholarship priority deadline

Program Highlights

- Designed to focus on areas where biomedical engineering expertise is most needed.
- Gain exposure to a wide range of biomedical engineering areas.
- Collaborative research with faculty of UND's School of Medicine & Health Sciences, College of Engineering & Mines and NDSU's College of Engineering.
- Help develop intellectual property to generate company spin-offs, attract new companies and economic development.

Outcomes

**86K**
Median pay for biomedical engineers

**7%**
Projected job growth through 2026

*U.S. Bureau of Labor Statistics*

Biomedical engineers will see an employment growth due to new technology and increasing applications to medical equipment and devices.

Demand will continue to grow as the baby-boom generation grows older and stays more active. There will be more need for biomedical devices and procedures such as hip and knee replacements.