The Department of Biomedical Engineering (BME) consistently ranks among the top biomedical engineering programs in the country. With cutting-edge research in neural engineering and rehabilitation, biomaterials and regenerative medicine, and imaging and biophotonics, the department attracts top faculty and graduate students alike.

Faculty have joint appointments in 12 departments within engineering, medicine, arts and sciences, and communication. Students in the program study engineering, life sciences, and mathematics while participating in hands-on design and research.

**Undergraduate Study**

**Degree Program**
- Bachelor of science in biomedical engineering

**Example Courses**
- BME 271 Introduction to Biomechanics
- BME 301–303 Systems Physiology
- BME 307 Quantitative Experimentation and Design
- BME 327 Magnetic Resonance Imaging
- BME 349 Bioregenerative Engineering

**Outside the Classroom**

**Study Abroad**
Many students take advantage of study abroad programs such as the Global Health Technologies Program in Cape Town, South Africa.

**Undergraduate Research**
More than 70 percent of BME undergraduate students work with faculty on cutting-edge research.

**Biomedical Engineering Society**
This undergraduate student chapter offers a great way to meet classmates and to learn about career and graduate school opportunities.

**Engineering World Health**
Members repair, build, and learn about medical devices for developing countries.

**Graduate Study**

**Programs**
- Master of science in biomedical engineering, with and without thesis
- Certificate in Global and Ecological Health Engineering
- PhD in biomedical engineering

**Research Areas**
- Biomaterials and regenerative medicine
- Imaging and biophotonics
- Neural engineering and rehabilitation
"I LIKE HOW YOU CAN SEE YOUR WORK HELPING PEOPLE AND IMPROVING THEIR LIVES. THAT’S THE WAY I WANT TO USE MY KNOWLEDGE."

SHANICE TAYLOR \ BIOMEDICAL ENGINEERING

CAREERS IN BIOMEDICAL ENGINEERING

WHAT’S NEXT?

\ Roughly 20 percent of BME students enroll in medical school.
\ Nearly 25 percent pursue an advanced degree in science or engineering.
\ More than half pursue an industry career.

Primary industries for biomedical engineering careers

Medical devices \ Hospital products \ Diagnostics \ Healthcare and management consulting

RECENT GRADUATE PLACEMENTS

\ Product development engineer at Bemis
\ Business analyst at OptumInsight
\ Engineer in the US Army
\ Technical services analyst at Epic
\ Software engineer at Google
\ Principal engineer at Baxter
\ Research and design engineer at CareFusion
\ Research and development engineer at Fresenius-Kabi
\ Engineer at Edge One Medical
\ Systems verification engineer at Hospira

HOW YOU SPEND YOUR TIME IN THIS PROGRAM

BASED ON A SURVEY OF CURRENT STUDENTS.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Giving/preparing for presentations</td>
<td>6.2%</td>
</tr>
<tr>
<td>Studying for/taking written exams</td>
<td>24.6%</td>
</tr>
<tr>
<td>Group projects</td>
<td>15.0%</td>
</tr>
<tr>
<td>Working on problem sets</td>
<td>33.3%</td>
</tr>
<tr>
<td>Building things</td>
<td>5.0%</td>
</tr>
<tr>
<td>Working in a Lab</td>
<td>8.5%</td>
</tr>
<tr>
<td>Computer programming</td>
<td>7.6%</td>
</tr>
</tbody>
</table>
Northwestern \ McCormick School of Engineering

www.bme.northwestern.edu