



Drexel University Undergraduate Programs

BIOMEDICAL ENGINEERING

The School of Biomedical Engineering, Science, and Health Systems

Biomedical engineering is a discipline you can take in many directions. Whether your interest is in design, research and development, production, law, or medicine, a biomedical engineering degree provides both versatility and superb employment potential. Growth in this industry is encouraged by the demand for better medical devices and healthcare solutions, more sophisticated equipment and procedures, and an increased concern for cost-effectiveness. The Bureau of Labor Statistics predicts that this field will grow “much faster than the average” through 2020.

For More Information

To learn more about Drexel and Biomed, visit:

Admissions
www.drexel.edu/undergrad

University Catalog
www.catalog.drexel.edu



Laboratory, Papadakis Integrated Sciences Building

Drexel Co-op: Knowledge at Work

Classroom learning, research, projects, papers, and exams are all critical to academic pursuits. But experience in your field can really make you stand out. With Drexel Co-op, you can gain up to 18 months of résumé-enhancing experience by the time you receive your degree.

Drexel's biomedical engineering students have recently completed co-ops with:

- Boston Scientific Corporation
- Exponent, Inc.
- Johnson & Johnson
- Medtronic, Inc.
- Wyeth Pharmaceuticals

Resources: The Classroom and Beyond

At Drexel you will start your education in the classroom, but your experiences certainly won't end there. Here are some of the resources and opportunities available to students:

- Fiber Optics and Photonics Manufacturing Engineering Center: Develops educational programs and performs advanced research in fiber optics, with an emphasis on manufacturing technologies.
- Global Engineering Education Exchange (Global E3): Students receive academic credit for courses taken at an overseas institution, and practical training in a foreign setting for a summer, semester, or academic year. Countries include Australia, Austria, Denmark, Finland, France, Germany, Hong Kong, Hungary, Italy, Japan, Mexico, Singapore, South Korea, Spain, Sweden, Turkey, and the United Kingdom.

- Research Projects: Faculty members and students in the School of Biomedical Engineering, Science, and Health Systems conduct research in a variety of fields, including biomedical ultrasound, biomedical imaging, cardiovascular systems, biomechanics, biomaterials, and tissue and cellular engineering.

Enhanced Options: Go Further, Faster

Beyond our more than 70 majors and our innovative co-op options, Drexel offers a number of ways to enhance your academic experience, including:

- More than 15 accelerated degree programs in everything from the BS/MS in individual programs to the BA/BS/MD, BS/MBA, and BA/BS/JD degrees
- The Pennoni Honors College, open to qualified students from all Drexel majors
- Opportunities for both study abroad and international co-op
- Research activities with Drexel faculty as early as freshman year

Campus Life: Make Yourself at Home

Drexel's residence halls are very popular stops on campus tours. Probably because prospective students know that a residence hall is more than just a place to sleep. Our residence halls offer either standard rooms or suites; they all have plenty of space for studying and socializing; and many provide optional Learning Communities, which allow students with similar interests to live in close proximity.



Student activities are another great way to meet new people and stay active on campus. At Drexel, students have many options to choose from, starting with:

- More than 300 cultural, media, service, and professional organizations
- Performing arts groups, such as dance, music, and theater, which are open to all students regardless of major
- Varsity, club, and intramural sports teams

Philadelphia: Expect the Unexpected

Philadelphia is the nation's fifth largest city. It's renowned for its historical sites and as a hub of the pharmaceutical, electronics, and finance industries. The city is home to first-class museums, theaters, shopping, dining, and nightlife, as well as major league sports and the nation's largest urban park system. Check out some of the ways Drexel can help you explore.

- **Cultural Passport:** This program gives you free access to museums, performance venues, and cultural events throughout the city.
- **Lindy Center for Civic Engagement (CCE):** All Drexel students are required to participate in service. The resources of the CCE will connect you with your community.
- **Region-Specific Courses:** One of the advantages to living in a historic and global city is that there's so much to study right outside your front door. Region-specific courses combine academic rigor with real-world discovery through local research trips.

Degree Program: Biomedical Engineering

Biomedical Engineering is an innovative bachelor of science degree program developed and delivered in collaboration with the colleges of Engineering, Arts and Sciences, Information Science and Technology, Medicine, and Nursing and Health Professions. It prepares students to conceive, design, and develop devices and systems that improve human health and quality of life. Biomedical engineering is the convergence of life sciences with engineering. From child car seats and football helmets to drug-delivery systems, minimally invasive surgery, and noninvasive imaging technology, the work of the biomedical engineer makes a difference in everyone's life.

Students may specialize in one of five concentration areas:

- Biomaterials and tissue engineering
- Biomechanics and human performance engineering
- Biomedical bioinformatics
- Biomedical devices and imaging
- Neuroengineering

Undergraduate Programs

Over 70 full-time programs

- Arts and Sciences
- Biomedical Engineering, Science, and Health Systems
- Business
- Education
- Engineering
- Information Science and Technology
- Law
- Media Arts & Design
- Medicine
- Nursing and Health Professions
- Pennoni Honors College
- Public Health
- Technology and Professional Studies

Financial Aid and Scholarships

Your education is an important investment. At Drexel we are committed to providing you with information and resources to help you with the cost of a college education. The first step toward receiving financial aid is to complete the Free Application for Federal Student Aid (FAFSA) available online at www.fafsa.gov beginning January 1. Freshmen starting college the following fall should submit it by February 15 for maximum financial aid consideration. Drexel uses the information provided on the FAFSA to award need-based grants and scholarships.

To learn more about financing options, visit www.drexel.edu/financialaid. To contact a representative from Drexel's Student Resource Center/Financial Aid office, visit <http://ask.drexel.edu>.

Visit Us

The best way for you to learn about Drexel is to visit campus. We offer a variety of options to meet your needs. For more information or to schedule a visit, go to www.drexel.edu/undergrad/visit or call 1-800-2-DREXEL (1-215-895-2400 for international students).

Apply

Apply to Drexel University online at www.drexel.edu/ugapp. The application fee is waived for students who apply online or during a Campus Visit.

Contact Us

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