At its essence, engineering strives to find answers to humanity’s most pressing challenges. Since the world is constantly changing, the engineer’s role is more important than ever.

As Drexel University’s flagship for over 100 years, the College of Engineering continues its strong tradition of engineering education spanning the full continuum, from the theoretical to the translation of technology for real-world application. The tools of the trade and experiences you gain at Drexel Engineering will shape your global view and give you a launching pad for a career as an innovator and solution-driven engineer.

You will learn the fundamentals and be encouraged to follow your interests with the guidance of world-renowned faculty who serve as your mentors and advisors. You will have opportunities to participate in research and design in modern labs, like our 20,000-square foot Innovation Studio — all with the culturally dynamic city of Philadelphia at your doorstep. You will set yourself on a path, influenced by your research experience and co-op employment at companies large and small, with the new knowledge and life lessons you gained and will carry with you throughout your career.

When you become a Drexel Engineer, you join a community of learners and a network of successful graduates around the world that aim to create a better tomorrow. Your ambition is your desire to engineer change.

DREXEL.EDU/ENGINEERING
BACHELOR OF SCIENCE MAJORS

ARCHITECTURAL ENGINEERING
Envision, construct and operate the systems essential to the design of safe, economic and environmentally sound buildings and their operations.

CHEMICAL ENGINEERING
Convert raw materials into the products and outcomes necessary for much of modern day life. Work is possible in a wide array of industries, from food production or biotechnology to electronics and advanced materials.

CIVIL ENGINEERING
Oversee projects and design solutions that are most often encountered in the public sphere or in critical infrastructure, including water reclamation systems, bridges, dams, roads, structural systems, green buildings, pollution mitigation and public transit.

COMPUTER ENGINEERING
Design smaller, faster and more reliable computers and systems, processors or networks for nearly any application in modern life. A flexible curriculum allows for focus on control systems, signal processing, telecommunications, power systems, cybersecurity or other applications.

CONSTRUCTION MANAGEMENT
Ensure that construction projects meet design specifications and are delivered on schedule and on budget. Work end-to-end with architects, builders, contractors and materials vendors to tackle complex projects from inception through completion.

ELECTRICAL ENGINEERING
Take on the technical demands of the global competitive economy with electronics expertise that can be applied to diverse fields, including but not limited to communications, machine learning, robotics, automation and control, wireless networks and bioinformatics.

ENGINEERING (INTERDISCIPLINARY)
Address society's complex challenges by incorporating engineering with another discipline, either from engineering or by extending into fields like medicine, law, business, media arts, environmental studies or entrepreneurship.

ENGINEERING TECHNOLOGY
Apply engineering and analytic skills to real world problems for a career as a technology and industry leader. Make an immediate impact with practical skills and multi-disciplinary training that can be applied in fields from robotics to smart manufacturing, and electronics to renewable energy.

ENVIRONMENTAL ENGINEERING
Protect humans and environments from the effects of damage from industry or climate change and improve quality of life, co-existence and sustainability through water, wastewater and air quality treatment, pollution control and other environmental systems.

MATERIALS SCIENCE AND ENGINEERING
Design, process, and characterize materials with improved performance and sustainability for wide-ranging uses, including renewable energy storage and conversion, health and medical technology, computing and communications.

MECHANICAL ENGINEERING AND MECHANICS
Use the principles of energy, materials and mechanics to design, manufacture and control machines and devices of all types. Areas such as biomechanics, infrastructure systems, high-performance computing and human-machine interfaces are at the forefront of future careers.

UNDECLARED
Explore your options and make a decision on your major at the end of your first-year.

UNDERGRADUATE MINORS
Students may choose minors from any offered across the University. Some of the minors offered in the College of Engineering include:

• Architectural Engineering
• Chemical Engineering
• Computer Engineering
• Construction Management
• Electrical Engineering
• Engineering Management
• Entertainment Engineering
• Environmental Engineering
• Global Engineering
• Materials Science and Engineering
• Mechanical Engineering
• Nuclear Engineering
• Systems Engineering
LEARNING IN PHILADELPHIA

The city of Philadelphia is our campus — a rich urban environment with a variety of social, cultural and learning opportunities that will be infused into your college experience. Philadelphia is also a draw for talented instructors and researchers, meaning you will engage with some of the best minds in engineering and other disciplines.

FIRST-YEAR DESIGN

Right from your start as a Drexel Engineer, you will undertake hands-on exploration in our first-year engineering design course. You will gain perspective into what it means to be an engineer and be excited by the innovation inherent in the design process. It all leads to a capstone project, where your team of fellow engineering students will build your design. Past projects have ranged from robotic hands to light therapy devices to rainwater catchment systems for local farms.

SENIOR DESIGN

At the other end of your studies, you will embark on a three-term course sequence that simulates the professional work environment necessary to respond to an open-ended challenge. You will be collaborating, building and making a formal presentation of your solution. Many projects are inspired by co-op experiences or designed and supported by industrial or governmental institution partners. The final project is the culmination of your studies and work experiences that have prepared you for that moment and your next step in a fulfilling engineering career.

BS/MS PROGRAM

Get a head start on advanced learning to earn your bachelor’s degree and master’s degree in five years. You will enter the workforce with a competitive advantage having added expertise in your major or through skills developed in an additional subject area.

ENGINEERING LEARNING COMMUNITIES (ELC)

First-year students can enjoy the unique experience of living and learning together. Through the vibrant community’s participation and access to special academic programs, service projects and social events in and around Philadelphia, the ELC fosters friendships that also support academic success. For more information and to apply, visit drexel.edu/engineering/elc.

STUDENT ORGANIZATIONS

Our many student social and professional organizations provide great opportunities for learning, leadership and socializing. Drexel Engineering student groups supplement your educational experience and cover a range of interests, like the Theme Park Engineering and Design Group or Formula SAE, who build race cars, to professional organizations like the Society for Women Engineers (SWE) or the Institute of Electrical and Electronics Engineers (IEEE).

ADVISING

Dedicated advisors help you with all aspects of navigating your studies, including the transition to college, identifying key support resources, choosing a minor and planning your post-graduation goals. Our Academic Center for Engineers also has peer mentors and tutoring to get you through the toughest classes. These are just some of the ways in which we are committed to your success.

RESEARCH

Drexel is designated as an R1 university by the Carnegie Foundation, meaning that the highest level of research activity takes place here. As the second-largest research enterprise behind only the College of Medicine, Drexel Engineering encourages students to be involved. The Drexel Students Tackling Advanced Research (STAR) scholars program is a research opportunity during your first summer, while the Vertically Integrated Projects (VIP) program embeds undergraduate students into large-scale, long-term research efforts of faculty and their graduate students. Also, many students choose to explore research as an option for their co-op. The small department team environment in the college allows for plenty of interaction with research active faculty, opening doors to participation in their labs.
**CO-OP**

Our commitment to your experiential learning is second to none and comes in many forms, most notably co-op. The college’s co-op program began with just 152 engineering students in 1919. Today, over 1,800 students participate in this transformative experience that alumni talk about years after they graduate.

Drexel Engineers are in high demand for co-op and work at hundreds of different companies in the region and around the world. By trying new work experiences, you will gain invaluable insights and come out with a better understanding of your chosen field and career path.

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**CO-OP GIVES YOU A HEAD START AND A FULL RESUME**

Each year, about 95 percent of Drexel Engineering co-op jobs are paid and many use their co-op for a deeper dive into research. In 2018-2019, about half of our graduates received full-time offers from their co-op employer.

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**Outcomes**

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<tr>
<th>Co-op Employment Rate</th>
<th>Median salary of engineering co-op</th>
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<tbody>
<tr>
<td>98%</td>
<td>$800/week (5% over previous year earning over $18,000 per six-month co-op)</td>
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**RECENT CO-OP EMPLOYERS**


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"Our program was a success because of our co-op... We treated our co-op the same way we treated our full-time engineers who had received their degree several years ago."

*Gregory M. Patschke*

Lockheed Martin

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**AMBITION CAN’T WAIT**

[Contact Information]

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