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. And you will set yourself on a path, influenced by your co-op employment at companies large and small and the new knowledge and life lessons you gained that you 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 make a tangible impact.

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**
Bridge design and production with the applied engineering expertise required for implementation and ongoing maintenance projects. These professionals, with practical skills and hands-on multi-disciplinary experience with existing technologies, are essential in industry.

**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**
Extend the supply of materials and improve and develop new superior or sustainable materials. Address the pivotal role of materials selection and performance in the areas of energy and the environment, health and medicine, information technology and extreme environments.

**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 freshman year.

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**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 sponsored by outside industrial or governmental institutions. 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 or the Institute of Electrical and Electronics Engineers.

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 a designated an R1 university by the Carnegie Foundation - meaning we have the highest level of research activity. As the University’s second-largest research enterprise, Drexel Engineering offers many opportunities right from your first year. The Drexel Students Tackling Advanced Research (STAR) scholars program is a research opportunity for freshmen during their first summer, while the Vertically Integrated Projects (VIP) program at Drexel embeds large-scale, long-term multidisciplinary teams of undergraduates into the research efforts of faculty and their graduate students. Many students take the opportunity to explore research as an option for their co-ops, too. The small department environment in the college allows for interaction with research active faculty, opening doors to your involvement in their labs.
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 transformational 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.

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.

Co-op Employment Rate 41
International Co-ops in 2018–19
Median salary of engineering co-op $800 /week
(5% over previous year) earning over $18,000 per six-month co-op

RECENT CO-OP EMPLOYERS

OUTCOMES
Median annual starting salary $66,000
Percentage satisfaction with position 94%
Satisfaction with level of responsibility 94%

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

Gregory M. Patschke
Lockheed Martin

AMBITION CAN’T WAIT

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