

# ENGINEERING TECHNOLOGY



## ***Engineering Technology at Drexel***

Engineering Technology aims to improve design and manufacturing methodologies through the hands-on application of engineering principles. Engineering technologists provide a range of services, from collaborating with engineers in the development of new products and processes to technical support and diagnostic services. They're the type of people who like to take things apart, see how they work, and try to make them even better before putting them back together.

Our program provides an integrated educational experience directed toward developing the ability to apply fundamental knowledge to the solution of practical technological problems. A Bachelor of Science in Engineering Technology from Drexel at BCC will prepare you to bridge the gap between theory and production in the workforce. The degree is full accredited by the Accreditation Board for Engineering and Technology (ABET), one of the most respected accreditation boards in the United States.

## ***Concentrations***

- Electrical Engineering Technology
- Mechanical Engineering Technology

## ***Drexel Co-op for Engineering Technology***

Drexel's prestigious co-operative education program, in which students alternate periods of classroom study with periods of professional work experience, is a key part of the major. ET students can participate in one six-month period of full-time co-op employment.

## ***A Few Drexel Co-op Positions***

- Automation design and process engineering
- Mechanical/production engineering
- Electrical and electronics engineering
- Systems engineering and management
- Environmental engineering
- Quality control

## ***Employers***

Here are some of the companies that have hired Drexel students as co-op or full-time employees:

- Lockheed Martin
- Southco
- Boeing
- Sunoco
- AstraZeneca

## **Potential Careers**

**Industrial Production Manager.** Plans and directs the activities needed to produce goods. Oversees the production process. Aims to reduce costs when possible, makes sure that products are of good quality and are produced on time, and makes production more efficient.

**Engineering Manager.** Plans and directs activities related to research, design, and production. May supervise people who design machinery and processes; may coordinate production, operations, quality assurance, testing, or maintenance in industrial plants. Directs teams that produce new goods and processes or improve existing ones.

## **Courses You'll Really Enjoy**

**Introduction to Manufacturing Industries.** Introduces manufacturing and its managed activities: research and development, production, marketing, industrial relations, and finance. Includes laboratory work in organizing, staffing, and operating a model manufacturing enterprise.

**Nondestructive Evaluation of Material.** Introduces students to fundamental principles of ultrasound NDE by combining hands-on laboratory experience with lectures. Students learn the real-world nondestructive inspection techniques related to detection and evaluation of cracks, inclusions, and other defects using commercially available NDE equipment. Laboratory work will enhance the fundamentals taught in the classroom sessions.

**Robotics and Mechatronics.** Provides a comprehensive technical introduction to robotics and automation in manufacturing. Topics include flow line production, material handling, group technology, and flexible and mechatronics-integrated manufacturing.

## **For More Information**

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