ABOUT THIS DEGREE PROGRAM

Biomedical engineering technologists install, improve, develop, adjust, repair and maintain devices and systems that diagnose and treat injuries and illnesses. These devices and systems include equipment, such as CAT scanners, MRI machines, patient monitoring devices, prosthetics, surgical devices and medical information systems.

As a student, you can study human anatomy and physiology, and combine these disciplines with engineering principles and practices. Our curriculum introduces you to quality assurance testing and troubleshooting of common equipment used in today’s leading hospitals and surgery centers. You can focus on real-world problems and solutions.

The Biomedical Engineering Technology degree program is accredited by The Engineering Technology Accreditation Commission (ETAC) of the Accreditation Board for Engineering and Technology (ABET). Some courses may be taken interchangeably between onsite and online to fulfill graduation requirements. The most recent information on which programs are ETAC of ABET accredited at which locations is available in the Academic Catalog on devry.edu/catalogs, contains the most current and detailed program information, including admission, progression and graduation requirements. Information contained herein is effective as of date of publishing.
Bachelor's Degree Program
Biomedical Engineering Technology

CAREERS IN ELECTRONICS & COMPUTER TECHNOLOGY

The biomedical engineering industry is experiencing exciting progress. The prospects for improving human health and extending human lifespan offer students many opportunities in the workplace today.

DeVry University’s Biomedical Engineering Technology degree program can provide students a broad range of applicable coursework, including medical devices, biomedical instrumentation systems, computer techniques in medical imaging systems, and telemedicine and biomedical networking.

Graduates of DeVry University’s Biomedical Engineering Technology degree program may consider careers including, but not limited to, the following:

- Applications Engineer
- Biomedical Equipment Technician
- Biomedical Sales Engineer
- Computer Automated Teller and Office Machine Technician
- Computer Support Specialist
- Customer Service Engineer
- Electronics Technician
- Energy Technical Project Manager
- Engineering Technician
- Field Service Technician
- Image Processing and Archiving
- Manufacturing Technician
- Medical Equipment Repairer
- Sales Engineer
- Test Engineer/Technologist

Knowledge and Skills

BIOENGINEERING TECHNOLOGY — Analyze biological and biomedical problems using fundamental concepts and tools, including electrodes, biopotential measurements, electrocardiogram equipment, pacemakers, defibrillators and ultrasonics. Apply engineering principles to acquire, monitor and analyze biological signals.

BIOMEDICAL INSTRUMENTATION SYSTEMS — Study the principles of medical instrumentation, including diagnostics and techniques for measuring physiological variables in living systems. Understand product liability and safety issues.

COMPUTER TECHNIQUES IN MEDICAL IMAGING — Use computer tools to design and implement data and image acquisition and analysis in biomedical environments. Understand the physics of producing images in applications such as X-ray, computerized tomography (CT), magnetic resonance imaging (MRI) and ultrasonic imaging.

MICROPROCESSOR INTERFACING — Learn how microprocessors interface with peripheral devices, including A/Ds, D/As, keyboards, displays, and serial and parallel communication channels. Develop software (high-level and assembly) and hardware aspects of these devices.

Computers and Electronics — Understand circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.

PHYSICS — Predict and apply physical principles and laws to fluid, material and atmospheric dynamics, as well as mechanical, electrical, atomic and sub-atomic structures and processes.

BIOLOGY — Understand plant and animal organisms along with their tissues, cells, functions, interdependencies and interactions with each other and the environment.

MATHEMATICS — Understand and apply arithmetic, algebra, geometry, calculus and statistics.

COMPLEX PROBLEM SOLVING — Identify complex problems and review related information to develop and evaluate options and implement solutions.

For comprehensive consumer information, visit devry.edu/studentconsumerinfo. Important information about the education debt, earnings and completion rates of students who attended this program can be found at devry.edu/bbet-ge.

For additional program information, visit devry.edu/bbet.

In New York, DeVry University operates as DeVry College of New York. DeVry University is accredited by The Higher Learning Commission (HLC), http://www.hlcommission.org. Keller Graduate School of Management is included in this accreditation. DeVry is certified to operate in the State of New York by the Department of Education. DeVry University is authorized for operation as a postsecondary educational institution by the Tennessee Higher Education Commission. www.tn.gov/thec

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