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, gaining the experience that today’s employers value.

At DeVry University, we believe in the value of a comprehensive education. This means broadening your knowledge and skill sets beyond the area of your degree program, to help prepare you to succeed in today’s diverse and evolving workplace.

From day one, you can learn important analytical and communication skills, such as problem-solving, reasoning and analysis, academic and professional writing, and mathematics and statistics skills. These skills can better equip you to work across cultures and understand a wide range of concepts that influence your area of study.

**General Education Coursework:**
- Communication Skills
- Humanities
- Mathematics and Analytical Methods
- Natural Sciences
- Personal and Professional Development
- Social Sciences

**Core-Degree Coursework:**
- COMP-122 Structured Programming with Lab
- COMP-220 Object-Oriented Programming with Lab
- ECET-100 Introduction to Electronics and Computer Engineering Technology with Lab
- ECET-110 Electronic Circuits and Devices I with Lab
- ECET-210 Electronic Circuits and Devices II with Lab
- ECET-220 Electronic Circuits and Devices III with Lab
- ECET-230 Digital Circuits and Systems with Lab
- ECET-299 Technology Integration I

*Biomedical Technology in New York.

**did you know?**

The Biomedical Engineering Technology (BMET) degree program is accredited, by location, by the Technology Accreditation Commission of ABET (TAC of ABET)*. The most recent information on the status of TAC of ABET accreditation of a location’s program is available from the location and at [www.devry.edu](http://www.devry.edu). ABET is the recognized accreditor for college and university programs in applied science, computing, engineering and technology that has provided quality assurance in higher education for over 75 years.

Note: DeVry’s academic catalog, available via [www.devry.edu/iscatalog](http://www.devry.edu/iscatalog), contains the most current and detailed program information, including graduation requirements.

*Biomedical Technology in New York.
Career in Biomedical Engineering 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.

According to the Bureau of Labor Statistics, employment of biomedical engineers is expected to grow by 72 percent between 2008 and 2018, much faster than the average for all occupations. According to its Occupational Outlook Handbook, “the aging of the population and a growing focus on health issues will drive demand for better medical devices and equipment designed by biomedical engineers.”

Graduates of DeVry University’s Biomedical Engineering Technology degree program may consider careers including:

- Applications Engineer
- Biomechanics and Rehabilitation Engineer
- Biomedical Equipment Technician
- Biomedical Sales Engineer
- Image Processing and Archiving
- Test Engineer

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, computed 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.

All of these courses

BMET312 Introduction to Bioengineering with Lab
BMET322 Biomedical Instrumentation Systems with Lab
BMET401L Senior Project Development Lab I
BMET402L Senior Project Development Lab II
BMET405L Senior Project Development Lab III
BMET432 Computer Techniques in Medical Imaging with Lab
BMET436 Telemedicine and Medical Informatics with Lab
BMET453 Biomedical Engineering Technology Professional Topics
BMET454 Biomedical Engineering Technology Internship
BMET491 Technology Integration II
CDMP328 Programming Environments and Java with Lab
ECET330 Microprocessor Architecture with Lab
ECET340 Microprocessor Interfacing with Lab
ECET350 Signal Processing with Lab
ECET375 Data Communications and Networking with Lab
ECET390 Product Development

In New York, DeVry University operates as DeVry College of New York. DeVry University is accredited by The Higher Learning Commission (HLC), www.ncahlc.org. DeVry is certified to operate by the State Council of Higher Education for Virginia. DeVry University is authorized for operation by the TheC, www.state.co.us/ths. In Tennessee, DeVry University is authorized by the Tennessee Higher Education Commission. Program availability varies by location. AC10660:02014 DeVry Educational Development Corp. All rights reserved. Version 7/7/14

For comprehensive consumer information, visit devry.edu/bbet

Visit DeVry.edu or call 888.DEVRY.04