Biomedical engineering is an exciting field concerned with the application of engineering and science methodologies to the analysis of biological and physiological problems and to the delivery of health care. Biomedical engineering involves developing devices and procedures that solve medical and health-related problems by combining knowledge of biology and medicine with engineering principles and practices.

Why Biomedical Engineering at Florida Tech?
Becoming a biomedical engineer requires the analytical tools and broad knowledge of modern engineering, a fundamental understanding of biological and physiological systems, and a familiarity with recent technological breakthroughs. Our innovative biomedical engineering program integrates biological sciences, engineering and applied technical training—perfect preparation for medical school and industry careers. And, biomedical engineering is one of Florida Tech's premedical studies programs, where you can fulfill the prerequisites for health professional schools as part of your degree program. Our mission is to ensure that our graduates have the knowledge and the skills to choose the future they want. Collaborative efforts between Florida Tech faculty and the local medical community offer unique research learning experiences for the students. In addition, the biomedical engineering learning experience is enriched through design courses, where students work as teams to solve biomedical engineering problems, and interactions with local practicing physicians through internships.

Growth Potential
Biomedical engineers are projected to have employment growth of 72% by 2018, much faster than the average for all occupations. (Source: U.S. Dept. of Labor)

Did You Know?
In 2010–2011, the average starting salary for biomedical engineering graduates was $54,771. (Source: NACE Salary Survey)

Close-Knit Community
Our low student-to-faculty ratio encourages close collaboration and mentorship as well as individual creativity and leadership.

WHY HERE?
• Hands-on from day one
• Biomedical engineering courses start freshman year
• Participate in clinical research projects conducted by medical doctors and dentists
• Capstone student design experience
• Take the courses you need for admission to medical and dental school programs
• Countless co-op, internship and job opportunities
• Located amidst the nation's fourth largest high-tech work force

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Biomedical Engineering

The aging of the population and a growing focus on health issues will drive demand for better medical devices and equipment. Biomedical engineers will lead the charge.

What to Expect

The biomedical engineering program is a strong community of ambitious students and highly active faculty members. The environment is highly cooperative, with students often working in teams, and very hands-on. Students will find no shortage of exciting projects with which to get involved.

Specialized Labs

Biomedical engineering students learn in labs dedicated to experimentation and research in lasers, instrumentation, medical imaging, microscopy, neural imaging, physiology, biomaterials and biomechanics.

Faculty Research Areas

The diverse areas of biomedical engineering research at Florida Tech include:
- lasers for cancer detection and therapy
- medical imaging
- tissue engineering
- neural engineering
- orthopaedic biomechanics
- biosensors

Clinical Immersion

A six- to seven-week clinical immersion experience is offered to select undergraduate students. The clinical immersions are held at NASA Kennedy Space Center (KSC) and at various hospitals and institutes such as Health First Hospitals, Orlando VA Medical Center, The Eye Institute, The Back Center, Cancer Care Center of Brevard, Neural Engineering Clinic and Tampa VA Hospital.

Careers and Graduate Study

Biomedical engineers design electrical circuits, software to run medical equipment or computer simulations to test new drug therapies. They design and build artificial limbs and even develop materials for replacement body parts. Biomedical engineers work in a variety of settings including hospitals, laboratories and, sometimes, manufacturing and commercial enterprise.

For students planning to attend medical school or other professional graduate study, the curriculum includes courses designed to prepare you for success in your chosen field.

BMES

The Biomedical Engineering Society's student chapter offers the chance to establish leadership skills, network, publish and participate in a wide range of career-enhancing activities, including travel to annual meetings, award opportunities and networking.

Senior Design

As seniors, all engineering students complete a capstone project that challenges them to design, develop, prototype and present a complex engineering system. Biomedical engineering students are advised by both faculty and practicing physicians during the process.

Active Advisement

Interested in medical school? You can work with a dedicated health professions advisor, who will make sure you have up-to-date information on medical school admission requirements, tests and application procedures.

Office of Undergraduate Admission
150 W. University Blvd.
Melbourne, FL 32901-6975
Ph: 321-674-8030
Toll Free: 800-888-4348
Fax: 321-674-8004
admission@fit.edu
www.fit.edu
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