Committed to solving the world’s greatest health problems through the exploration of new ideas, integrated research and innovation, the Department of Biomedical Engineering at Texas A&M University is producing the next generation of biomedical engineers, developing new technologies and new jobs, and achieving revolutionary advancements for the future of health care.

**Rankings**

U.S. News & World Report, (Best Grad Schools, Engineering 2015)
- Graduate – 15th among public institutions

**Faculty**

- 19 tenured/ tenue-track faculty
- 6 NSF Early Investigator Awards
- 2 endowed professorships
- 11 editorships and editorial board memberships
- 10 Fellow grades in professional societies
- Other faculty members: 16 joint appointments, 8 adjunct, 5 courtesy, 2 professors of practice, 1 emeritus professor

**Areas of Study**

- Biomaterials
- Biomechanics
- Biomedical Electronics and Instrumentation
- Biomedical Imaging
- Biomedical Optics
- Biomedical Signal Processing
- Biophotonics
- Cardiac, Vascular and Cellular Mechanics
- Computational Mechanics
- Computer Simulation of Biomolecules
- Magnetic Resonance Imaging
- Nano and Micro Biosensing and Imaging
- Polymer Colloids and Hydrogels
- Tissue Engineering

**Research**

Our research has resulted in new patents, new companies and new economic activity. With increasing demands for quality medical devices, procedures and improved cost-effectiveness, we are positioned to lead the way in the development, testing and commercialization of products, systems and technologies.

$9.5 M in Research Expenditures (2013)
- 66 patents & disclosures filed and 11 start-up companies created, including one exit through acquisition by Medtronic, Inc.
- 73 refereed journal papers in 2013

**Students**

ABET accredited since 1977, the biomedical engineering program at Texas A&M has awarded B.S., M.S. and Ph.D. degrees since 1973. One-third of the department’s graduates find work in industry, one-third attend medical school, and one-third pursue graduate degrees.

**Enrollment** (Fall 2014)
- Undergraduate — 267 (sophomore to senior)
- Graduate — 117
- Total Enrollment — 384

**Degrees Awarded** (Fall 2013, Spring 2014, Summer 2014)
- Bachelor’s — 81
- Master’s — 11
- Ph.D. — 16

**Diversity**
- Undergraduate — 44% female, 19% minority
- Graduate: — 32% female, 19% minority

**Student Quality** (Fall 2013)
- New National Merit Scholars — 9
- New National Hispanic Scholars — 9

- 65% of all biomedical engineering undergraduates ranked among the top 10% of their high school graduating class.

- More than $2 M in graduate student fellowships awarded to incoming biomedical engineering students in 2014.

- The department’s graduate students are holders of six National Science Foundation fellowships, seven Louis Stokes Alliance for Minority Participation Bridge to the Doctorate fellowships and 23 university fellowships.

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Facilities

The $104 million, 212,000-square-foot Emerging Technologies Building for interdisciplinary engineering education, research and service houses two major engineering and research departments, offices, state-of-the-art computer-based classrooms and laboratories, wet laboratories, and a large-scale visualization room. This certified Leed Silver Sustainable Building is energy efficient and designed to utilize open space to encourage collaboration and discovery.

Select Capabilities and Resources

• 9 classrooms, each with seating for 40-100
• 80-station computer laboratory
• 12 National Instruments ELVIS, 2 in undergraduate dry laboratory
• 3 wet lab floors comprise 28 biomedical engineering research wet labs, 38 functioning fume hoods and 12 biosafety cabinets
• 4 teaching laboratories and 5 shared research laboratories
• Biofabrication laboratory with UV lithography, Scanning Electron Microscope (SEM) and Atomic Force Microscope (AFM)
• Imaging histology, molecular biology laboratory with microplate reader, vibrotome, inverted brightfield/phase/fluorescence microscope and automated slide scanner
• Biomaterials preparation and characterization shared research laboratory with HPLC with mass spectrometer, ellipsometer, contact angle goniometer
• Biosafety Level 2 (BL-2) cell and tissue culture lab with biosafety cabinets, incubators, -80, -20, 4C storage, autoclaves, confocal microscope
• Prototyping laboratory with Gravograph laser engraving system, Resonetics Excimer laser system
• HPLC with gas mass spectrometer and gas chromatograph
• Biomechanics Experiential Learning Laboratory with VICON Motion Capture system, TestResources 12kN Axial/Torsion Load Frame, LaVision PIV system
• Machining and device shop with Monarch lathe & Bridgeport milling machine

Centers and Laboratories

Center for Remote Health Technology
National Center for Therapeutics Manufacturing

Biomechanical Environments Laboratory
Biomaterials Testing Laboratory
Biomedical Micro/Nanoscale Devices Laboratory
Cardiac Biomechanics Laboratory
Cellular Biomechanics Laboratory
Continuum Biomechanics Laboratory
Medical Service Systems Safety Laboratory
Molecular Biomechanics Laboratory
Optical Biosensing Laboratory
Optical Imaging Laboratory
Rehabilitation Engineering Laboratory
Soft Tissue Biomechanics Laboratory
Tissue Microscopy Laboratory