Biomedical Engineering Department
Texas A&M University

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Welcome to BME@TAMU

Thank you for participating in the first annual Biomedical Engineering Showcase!

Silver Sponsor

Abbott
A Promise for Life

Bronze Sponsors

HHS

QUEST MEDICAL

Participating Companies

Accenture, Boston Scientific, Emerson, Exothermix, HealthTrust, Synaptive Medicine, TAMU Shadowing Program
A Time of Change

• Department Growth
• Strategic Plan
• Curriculum Updates
  • New Technical Track (BMCE)
  • General Engineering
  • ENGR^X
• Curriculum Updates
Department Profile

• Faculty
  • 22 Tenure/Tenure-Track
  • 3 Professors of Practice
  • 4 Part-time Lecturers

• Facilities
  • 57,000 sq. ft.

• Grant Funding
  • $5,771,000 in new awards for FY 2017

• Students
  • 356 undergraduates (soph-sr)
  • 127 graduates
Student Growth

Targeted (So – Sr) = 450 (2019)
Targeted (GRAs) = 155 (2019)
Faculty Growth

Dr. Corey Bishop, Assistant Professor
PhD from John Hopkins (#1 in BME)

Dr. Abhishek Jain, Assistant Professor
PhD from Boston University (#9 in BME)

Dr. Saurabh Biswas, Associate Professor of Practice
PhD from Texas A&M (#19 in BME)

Dr. Shuning Huang, Instructor
PhD from MIT-Harvard (#2 in BME)

3 Associate/Full Professor positions
open with active search underway
Our **Vision** is to be a top biomedical engineering program that improves health outcomes and advances healthcare.

Our **Mission** is to improve health outcomes and advance healthcare through our fundamental and applied research, translation of healthcare technologies, integration of education and workforce development programs, and selfless service to the profession.
*NEW*
Strategic Plan Schematic

Clinical and Translational Focus on Outcomes & Outcomes

- RESEARCH (Scholarly Output and Extramural Input)
- TEACHING (Evaluations and Learning Outcomes)
- SERVICE (Dept., College, Univ. & Profession)
New BME@TAMU Strategic Plan

- Increase professional experiences for students
- Increase research ties to industry
- Expand industry relationships for further curriculum development
- Recruit additional senior design connections & company sponsorships
- Increase job placement rates for graduating students
Coursework Topics:
- Calculus & Differential Equations
- Physics, Chemistry, & Physiology
- Design process
- MATLAB, LabVIEW, & SOLIDWORKS
- Four technical focus areas
  - Biomechanics
  - Biomaterials
  - Bioinstrumentation
  - *NEW* Biomolecular and Cellular Engineering
- Optional electives in entrepreneurship, research, quality/regulatory engineering, bioinnovation, and more
General Engineering:

- Freshmen now enter TAMU as “General Engineering” majors, which allows them to complete basic math, science, and engineering classes while learning more about engineering career options to find the right major for their career goals.
- Students traditionally enter a specific department and major the summer after their freshman year.
ENGR*: 

- Student participation in extra curricular activities such as student organization leadership, multi-semester research programs, internships, etc. are now formally documented in the students transcript and required for graduation.
Industry Luncheon

BMES 2016, Minneapolis, Minnesota

Department of Biomedical Engineering, Texas A&M University
Industry Track

BMES 2017, Phoenix, Arizona

Department of Biomedical Engineering, Texas A&M University
Thank You!