

DEPARTMENT OF BIOMEDICAL ENGINEERING

The objectives of the Biomedical Engineering program are to produce high-quality graduates with a broad-based education in engineering, life sciences and natural sciences applied to the fields of biomechanics, cellular and molecular bioengineering, computational bioengineering, imaging and photonics, medical devices, regenerative medicine, or sensing and monitoring who:

1. Are well prepared for further graduate studies, careers in the biomedical or biotechnology industries or entry into medical or other professional schools;
2. Will make significant contributions in biomedical industries, medicine and other sectors;
3. Will apply acquired knowledge appropriately, work professionally with others, effectively communicate ideas and technical information and continue to learn and improve their knowledge base and skills.

These objectives are met through a modern and comprehensive curriculum taught by a well-prepared, professionally active and dedicated faculty. In addition, the program actively supports professional development among the students through individual study and research opportunities, cooperative education and internships, and student society activities. These goals are measured by the success of the graduates in finding rewarding professional employment, and by admission to respected graduate and professional schools.

Design is an important part of biomedical engineering and design skills are cultivated through a series of design courses, beginning in the first year in the program, culminating in the two-semester senior design course sequence that requires the application of a wide range of engineering methods to a focused design project. Other courses in biomedical engineering and in supporting disciplines include examples of the application of the principles to design, as well as specific design exercises. The biomedical engineering curriculum is accredited by the Engineering Accreditation Commission of ABET, www.abet.org.

Before commencing coursework in the department, students must be admitted to the major or minor.

Faculty

Adjei, Isaac, Assistant Professor
Biomedical Engineering
PHD, Case Western Reserve University, 2014

Alge, Daniel L, Associate Professor
Biomedical Engineering
PHD, Purdue University, 2010

Avazmohammadi, Reza, Assistant Professor
Biomedical Engineering
PHD, University of Pennsylvania, Philadelphia, PA, 2014

Bagnato, Vanderlei, Professor
Biomedical Engineering
PHD, Massachusetts Institute of Technology, 1987
PHD, Massachusetts Institute of Technology, 1987

Biswas, Saurabh, Associate Professor of the Practice
Biomedical Engineering
PHD, Texas A&M University, 2011

Bujnoch, Zachary, Associate Professor of Practice
Biomedical Engineering
MBA, University of Texas - San Antonio, 2022

Carrell, Travis, Instructional Assistant Professor
Biomedical Engineering
PHD, Texas A&M University, 2022

Ceylan Koydemir, Hatice, Assistant Professor
Biomedical Engineering
PHD, MIDDLE EAST TECHNICAL UNIVERSITY, 2013

Chimene, David, Research Assistant Professor
Biomedical Engineering
PHD, Texas A&M University, 2019

Chukkapalli, Sasanka, Research Assistant Professor
Biomedical Engineering
PHD, Post Graduate Institute of Medical Education & Research (PGIMER)
Chandigarh, India, 2009

Cote, Gerard L, Professor
Biomedical Engineering
PHD, University of Connecticut, 1990

Criscione, John C, Professor
Biomedical Engineering
MD, The Johns Hopkins University, 1999
PHD, The Johns Hopkins University, 1999

Gaharwar, Akhilesh K, Associate Professor
Biomedical Engineering
PHD, Purdue University, 2011

George, Jason, Assistant Professor
Biomedical Engineering
MD, Baylor College of Medicine, 2020
PHD, Rice University, 2019

Gibbs, Holly, Research Assistant Professor
Biomedical Engineering
PHD, Texas A&M University, 2015
PHD, Texas A&M University, 2014

Ginn-Hedman, Anne-Marie, Instructional Assistant Professor
Biomedical Engineering
PHD, Texas A&M University-College Station, 2022

Graul, Meghan, Instructional Assistant Professor
Biomedical Engineering
PHD, Texas A&M University, 2022

Grunlan, Melissa A, Professor
Biomedical Engineering
PHD, University of Southern California, 2004

Hanks, John, Professor of the Practice
Biomedical Engineering
MS, University of Texas, Austin, 1989

Haridas, Balakrishna, Professor of the Practice
Biomedical Engineering
PHD, University of Cincinnati, 2001

Horn, John, Instructional Assistant Professor
Biomedical Engineering
PHD, Texas A&M University, 2018

Hwang, Wonmuk, Professor
Biomedical Engineering
PHD, Boston University, 2001

Jafari, Roozbeh, Professor
Biomedical Engineering
PHD, University of California, Los Angeles, 2006

Jain, Abhishek, Associate Professor
Biomedical Engineering
PHD, Boston University, 2012

Jessen, Staci, Research Assistant Professor
Biomedical Engineering
PHD, Texas A&M University, 2016

Kaunas, Roland R, Associate Professor
Biomedical Engineering
PHD, University of California at San Diego, 2003

Lele, Tanmay, Professor
Biomedical Engineering
PHD, Purdue University, 2002

Ligler, Frances, Professor
Biomedical Engineering
DOC, Oxford University, Oxford, UK, 2000
PHD, Oxford University, Oxford, UK, 1977

Mabbott, Samuel, Assistant Professor
Biomedical Engineering
PHD, University of Manchester, Manchester Interdisciplinary Biocentre,
2012

Maitland IV, Duncan J, Professor
Biomedical Engineering
PHD, Northwestern University, 1995

McDougall, Mary P, Associate Professor
Biomedical Engineering
PHD, Texas A&M University, 2004

McShane II, Michael J, Professor
Biomedical Engineering
PHD, Texas A&M University, 1999

Montgomery, William,
Biomedical Engineering
MS, US Army War College, 2016

Patrick, Charles, Professor of the Practice
Biomedical Engineering
PHD, Rice University, 1994

Peak, Charles W, Instructional Assistant Professor
Biomedical Engineering
PHD, Texas A&M University, 2018

Raghavan, Shreya, Assistant Professor
Biomedical Engineering
PHD, Virginia Tech-Wake Forest University School of Biomedical
Engineering and Sciences, 2014

Reynolds, Jeffery, Professor Of The Practice
Biomedical Engineering
PHD, Purdue University, 1996

Southard, Fletcher, Visiting Associate Professor of the Practice
Biomedical Engineering
MBA, Penn State, 2020

Tian, Limei, Assistant Professor
Biomedical Engineering
PHD, Washington University in St. Louis, 2014

Walsh, Alexandra, Assistant Professor
Biomedical Engineering
PHD, Vanderbilt University, 2015

Ware, Taylor, Associate Professor
Biomedical Engineering
PHD, University of Texas at Dallas, 2013

Yakovlev, Vladislav V, Professor
Biomedical Engineering
PHD, Moscow State University, 1990

Zhao, Feng, Associate Professor
Biomedical Engineering
PHD, Tianjin University, 2001

Majors

- Bachelor of Science in Biomedical Engineering (<http://catalog.tamu.edu/undergraduate/engineering/biomedical/bs/>)

Minors

- Biomedical Engineering Minor (<http://catalog.tamu.edu/undergraduate/engineering/biomedical/minor/>)

Certificates

- Quality Engineering for Regulated Medical Technologies Certificate (<http://catalog.tamu.edu/undergraduate/engineering/biomedical/quality-regulated-medial-technologies-certificate/>)