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, biomaterials, bioinstrumentation, and biomolecular and cellular engineering; 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 emphasized throughout the curriculum, beginning in the freshman year, and culminating in the two-semester senior design course sequence that requires 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

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

Applegate, Brian E, Associate Professor
Biomedical Engineering
PHD, Ohio State University, 2000

Bishop, Corey J, Assistant Professor
Biomedical Engineering
PHD, The Johns Hopkins University School of Medicine, 2015

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

Brewer, Maurice A, Professor of the Practice
Biomedical Engineering
MBA, Harvard Graduate School of Business Administration, 1984

Bukkapatnam, Satish T, Professor
Biomedical Engineering
PHD, Pennsylvania State University, 1997

Clubb Jr, Fred J, Professor
Biomedical Engineering
PHD, University of Alabama - Birmingham, 1983
DVM, Auburn University, 1971

Cosgriff-Hernandez, Elizabeth M, Associate Professor
Biomedical Engineering
PHD, Case Western Reserve University, 2005

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

Criscone, John C, Professor
Biomedical Engineering
PHD, The John Hopkins University School of Medicine, 2005

Fink, Rainer J, Associate Professor
Biomedical Engineering
PHD, Texas A&M University, 1995

Freed, Alan D, Professor
Biomedical Engineering
dEN, University of Wisconsin - Madison, 1985

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

Gibbs, Holly C, Lecturer
Biomedical Engineering
PHD, Texas A&M University, 2015

Gonezen, Sevan, Assistant Professor
Biomedical Engineering
PHD, Rensselaer Polytechnic Institute, 2011

Gregory, Carl A, Assistant Professor
Biomedical Engineering
PHD, University of Manchester, 1999

Grunlan, Melissa A, Professor
Biomedical Engineering
PHD, University of South Carolina, 2004

Guiseppi Elie, Anthony, Professor
Biomedical Engineering
PHD, Massachusetts Institute of Technology, 1983

Han, Arum, Professor
Biomedical Engineering
PHD, Georgia Institute of Technology, 2005

Hogan, Harry A, Associate Professor
Biomedical Engineering
PHD, Texas A&M University, 1984

Huang, Shuning, Lecturer
Biomedical Engineering
PHD, Massachusetts Institute of Technology, 2009
Hwang, Wonmuk, Associate Professor
Biomedical Engineering
PHD, Boston University, 2001

Jafari, Roozbeh, Associate Professor
Biomedical Engineering
PHD, University of California, 2006

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

Jayaraman, Arul, Professor
Biomedical Engineering
PHD, University of California, Irvine, 1998

Jo, Javier A, Associate Professor
Biomedical Engineering
PHD, University of Southern California, 2002

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

Keller, Brandis K, Lecturer
Biomedical Engineering
PHD, Politecnico di Milano, 2013

Lawley, Mark A, Professor
Biomedical Engineering
PHD, University of Illinois at Urbana-Champaign, 1995

Machek, James E, Professor Of The Practice
Biomedical Engineering
BS, Gannon University, 1979

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

Maitland, Kristen D, Associate Professor
Biomedical Engineering
PHD, University of Texas, 2006

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

Moreno, Michael R, Assistant Professor
Biomedical Engineering
PHD, Texas A&M University, 2009

Ober, Raimund J, Professor
Biomedical Engineering
PHD, University of Cambridge, 1988
PHD, Cambridge University, 1987

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

Peterson, Donald, Professor
Biomedical Engineering
PHD, University of Connecticut, 1999

Quick, Christopher M, Associate Professor
Biomedical Engineering
PHD, Rutgers University, 1999

Rajagopal, Kumbakonam, Professor
Biomedical Engineering
PHD, University of Minnesota, 1978

Stoica, Gheorghe, Professor
Biomedical Engineering
PHD, Michigan State University, 1984
DVM, Institute of Agronomy, Yassy, Romania, 1966

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

Trache, Andreea, Associate Professor
Biomedical Engineering
PHD, Institute of Atomic Physics, Romania, 1996

Ugaz, Victor M, Professor
Biomedical Engineering
PHD, Northwestern University, 1999

Wilson, Emily, Professor
Biomedical Engineering
PHD, Emory University, 1987

Wright, Steven M, Professor
Biomedical Engineering
PHD, University of Illinois, 1984

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

Yeh, Alvin T, Associate Professor
Biomedical Engineering
PHD, University of California, Berkeley, 2000

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