DEPARTMENT OF BIOMEDICAL ENGINEERING

http://engineering.tamu.edu/biomedical (http://engineering.tamu.edu/biomedical/)

Head: M. McShane

Graduate Advisor: D. Alge

The Department of Biomedical Engineering offers several graduate degrees. The PhD and MS programs are research-based and require a thesis, while the MEng degree focuses on preparing students for industry and involves an internship. Through our collaborations with Mays Business School, there is also a Master of Engineering/Master of Business Administration program. For more information, including degree requirements and application deadlines, visit http://engineering.tamu.edu/biomedical (http://engineering.tamu.edu/biomedical/).

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 in industry and at tier-one research institutions, developing new technologies and new jobs, and achieving revolutionary advancements for the future of health care.

Graduate students in the Department of Biomedical Engineering participate in groundbreaking research in Cancer Engineering, Cardiovascular Engineering, Engineering for Accessible Health, Pediatric Technologies, and Regenerative Engineering while interacting with outstanding faculty members who have strong collaborations with the college of science, medicine and veterinary medicine as well as faculty, medical doctors and industry personnel from around the globe.

Doctor of Philosophy

With this degree option, students complete a minimum of 64 or 96 hours on their degree plans. The total number of hours on the degree plan as well as the required number of hours of formal coursework is dependent upon the student's previous degree(s). As part of this research-intensive degree, students will write and defend a dissertation. A PhD requires a committee of four or more graduate level faculty members, including one faculty to act as the primary adviser for each candidate. Students may enter this program with a master's or bachelor's degree in engineering or an equivalent field. (If the degree is not in engineering, leveling courses may be required.) Students entering with only a bachelor's degree will be required to complete a 96-hour degree plan, and students who have earned a master's degree at a U.S. institution will only be required to complete a 64-hour degree plan.

Master of Science

Students interested in an MS degree complete a minimum of 30 hours on their degree plans, of which 24 hours is formal coursework. As part of this research-based degree, students are required to write and defend their final thesis. An MS requires a committee of three or more graduate level faculty members, one of which must act as the primary adviser for each candidate. Students admitted into this program must have a bachelor's degree in engineering or an equivalent field (if the degree is not in engineering, leveling courses may be required). Students with the ultimate goal of pursuing a PhD should apply directly to the PhD program.

Master of Engineering

The Department of Biomedical Engineering offers an MEng degree in which students complete a minimum of 30 hours on their degree plans, of which 27 hours is formal coursework. Geared toward industry, students in this degree program are required to complete an internship and final project. Students admitted into this program must have a bachelor's degree in engineering or an equivalent field (if the degree is not in engineering, leveling courses may be required.)

ME/MBA Cooperative

In conjunction with Mays Business School, the Department of Biomedical Engineering offers a MEng/MBA degree that allows students to complete both degrees in approximately 2.5 years. This program prepares students for leadership roles in many areas of biomedical engineering and business with specific MBA training in leadership, management, human resources, team building, communications, marketing, finance, accounting, strategy and technology. The program also allows for an optional self-designed specialization for the BMEN student (may require enrollment in additional semesters). The goal of the BMEN/MBA degree program is to produce leaders in biomedical engineering and business. More specific details about the curriculum and degree timeline can be found here. (https://engineering.tamu.edu/biomedical/academics/degrees/graduate/me-mba.html)

For more information, including degree requirements and application deadlines, visit http://engineering.tamu.edu/biomedical (http://engineering.tamu.edu/biomedical/).

Faculty

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

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Biomedical Engineering
PHD, University of Pennsylvania, Philadelphia, PA, 2014

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Biomedical Engineering
PHD, Massachusetts Institute of Technology, 1987

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Biomedical Engineering
PHD, Texas A&M University, 2011

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PHD, Texas A&M University, 2022

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PHD, MIDDLE EAST TECHNICAL UNIVERSITY, 2013

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MD, Baylor College of Medicine, 2020
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PHD, University of Southern California, 2004

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MS, University of Texas, Austin, 1989

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PHD, Drexel University, 2005

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PHD, Boston University, 2001

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PHD, Boston University, 2012

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Biomedical Engineering
PHD, University of California at San Diego, 2003

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PHD, Purdue University, 2002

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DSC, Oxford University, Oxford, UK, 2000
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PHD, University of Manchester, Manchester Interdisciplinary Biocentre, 2012

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PHD, Texas A&M University, 2004

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PHD, University of Texas, Southwestern Medical Center, 2014

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PHD, Rice University, 1994

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PHD, University of Sao Paulo, 2017

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

Rahbar, Elaheh, Associate Professor
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Reynolds, Jeff, Professor of the Practice
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PHD, Purdue University, 1996

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PHD, Washington University in St. Louis, 2014

Timmins, Lucas, Associate Professor
Biomedical Engineering
PHD, Texas A&M University, 2010

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

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

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

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

Masters

- Master of Engineering in Biomedical Engineering (https://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/biomedical/meng/)
- Master of Science in Biomedical Engineering (https://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/biomedical/ms/)

Doctoral

- Doctor of Philosophy in Biomedical Engineering (https://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/biomedical/phd/)