

# DEPARTMENT OF BIOLOGICAL AND AGRICULTURAL ENGINEERING

Biological and agricultural engineers apply their knowledge of physical and biological sciences, mathematics, engineering principles and engineering design to the production and processing of food and fiber, to the preservation of environmental quality, to biological systems and processes, and to machine systems that interface with all of these. Because of their broad general engineering background, biological and agricultural engineering graduates are sought by a wide variety of employers including environmental consulting firms, equipment manufacturers, crop storage and handling industries, the cotton and forest products industries, food and feed processing industries, animal production industries, biotechnology companies, electric utility companies, chemical companies, and governmental agencies. Biological and agricultural engineers make significant contributions to meeting many basic needs of society such as maintaining food quality, quantity and safety; improving environmental quality; and enhancing the quantity and quality of our water resources.

The Biological and Agricultural Engineering Department provides quality education, research and outreach in engineering and technology for the world's agricultural, biological, environmental and food systems. Our undergraduate programs provide a high quality education for engineering and systems management students to fulfill the needs of industries we serve and advance our reputation as a world leader in engineering and systems management education.

The Bachelor of Science program in Biological and Agricultural Engineering is accredited by the Engineering Accreditation Commission (EAC) of ABET. The Fundamentals of *Engineering (FE)* exam is generally your first step in the process to becoming a licensed professional engineer (P.E.). Students are eligible to obtain these licenses upon graduating from an EAC of ABET-accredited program.

## Faculty

Agarwal, Girish S, Professor  
Biological & Agricultural Eng  
PHD, University of Rochester, 1969

Buser, Michael, Professor  
Biological & Agricultural Eng  
PHD, Texas A&M University, 2004

Calabrese, Salvatore, Assistant Professor  
Biological & Agricultural Eng  
PHD, Princeton University, 2019

Capareda, Sergio C, Professor  
Biological & Agricultural Eng  
PHD, Texas A&M University, 1990

Castell-Perez, M E, Professor  
Biological & Agricultural Eng  
PHD, Michigan State University, 1990

Davis, Donovan, Instructional Assistant Professor  
Biological & Agricultural Eng  
BS, Texas A&M University, 2020

Fernando, Sandun D, Professor  
Biological & Agricultural Eng  
PHD, University of Nebraska, 2003

Hardin, Robert G, Associate Professor  
Biological & Agricultural Eng  
PHD, Texas A&M University, 2009

King, Maria D, Associate Professor  
Biological & Agricultural Eng  
PHD, Institute for Biotechnology, Berlin, Germany, 1986

Kingman, Douglas M, Instructional Professor  
Biological & Agricultural Eng  
PHD, Purdue University, 2002

McGee, Russell O, Instructional Associate Professor  
Biological & Agricultural Eng  
MEN, Texas A&M University, 1997

Mohanty, Binayak P, Professor  
Biological & Agricultural Eng  
PHD, Iowa State University, 1992

Mohtar, Rabi H, Professor  
Biological & Agricultural Eng  
PHD, Michigan State University, 1994

Moore, Janie M, Associate Professor  
Biological & Agricultural Eng  
PHD, Purdue University, 2015

Moreira, Rosana G, Professor  
Biological & Agricultural Eng  
PHD, Michigan State University, 1989

Munster, Clyde L, Senior Professor  
Biological & Agricultural Eng  
PHD, North Carolina State University, 1992

Nikolov, Zivko L, Professor  
Biological & Agricultural Eng  
PHD, Iowa State University, 1986

Singh, Vijay P, Professor  
Biological & Agricultural Eng  
PHD, Colorado State University, 1974

Smith, Patricia K, Professor  
Biological & Agricultural Eng  
PHD, North Carolina State University, 2000

Vaddevolu, Uday Bhanu Prakash, Assistant Professor  
Biological & Agricultural Eng  
PHD, North Dakota State University, 2023

## Majors

- Bachelor of Science in Agricultural Systems Management (<https://catalog.tamu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/agricultural-systems-management-bs/>)

- Bachelor of Science in Biological and Agricultural Engineering (<https://catalog.tamu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/bs/>)
- Bachelor of Science in Biological and Agricultural Engineering, Agricultural Engineering Track (<https://catalog.tamu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/bs-agricultural-engineering-track/>)
- Bachelor of Science in Biological and Agricultural Engineering, Biological Engineering Track (<https://catalog.tamu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/bs-biological-engineering-track/>)
- Bachelor of Science in Biological and Agricultural Engineering, Natural Resources Engineering Track (<https://catalog.tamu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/bs-natural-resources-engineering-track/>)

## Minors

- Agricultural Systems Management Minor (<https://catalog.tamu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/agricultural-systems-management-minor/>)
- Food Engineering Minor (<https://catalog.tamu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/food-engineering-minor/>)