

Biological and Agricultural Engineering

The Master of Science in Biological and Agricultural Engineering (MS) is intended for students interested in advanced research in biological engineering. The MS degree is a thesis-based degree for those individuals who want to pursue a research-oriented degree beyond the Bachelor of Science. Students are required to write a thesis and defend it at the final oral examination. A minor is optional.

More Information

- Biological and Agricultural Engineering Program Website
- Distance Website

Admission Requirements

A baccalaureate in biological or agricultural engineering or other engineering discipline (GPA > 2.8) is the preferred prerequisite for admission. Those with a strong academic background in the physical or biological sciences may also be admitted with a requirement for undergraduate work in math, physics, chemistry and basic engineering courses. In the case of applicants with Master's degrees, a Master's GPA of at least 3.2 is required for admission to the PhD. Exceptions to the overall undergraduate GPA requirements may be made for cases where performance in the major or during the last two years was at or above the 3.00 level.

Applicants who do not have an engineering background, but have earned a degree in an appropriate science discipline may be admitted to the Systems Analysis Concentration in the MS or PhD program without completing the engineering prerequisites.

GRE scores are not required for admission. A faculty review committee will admit the best-qualified applicants.

Applicant Information

Biological and Agricultural Engineering (MS and PhD)

- **Delivery Method:** On-Campus
- **Entrance Exam:**
- **Interview Required:** None

Biological and Agricultural Engineering (MR)

- **Delivery Method:** On-Campus, Online, Hybrid
- **Entrance Exam:**
- **Interview Required:** None

Application Deadlines

- **Fall:** June 25 (US); March 1 (Int)
- **Spring:** November 25 (US); July 15 (Int)
- **Summer 1:** March 25 (US); December 15 (Int)
- **Summer 2:** May 10 (US); December 15 (Int)

Degrees

- Biological and Agricultural Engineering (MR) (<http://catalog.ncsu.edu/graduate/agriculture-life-sciences/biological-agricultural-engineering/biological-agricultural-engineering-mr/>)
- Biological and Agricultural Engineering (MS) (<http://catalog.ncsu.edu/graduate/agriculture-life-sciences/biological-agricultural-engineering/biological-agricultural-engineering-ms/>)
- Biological and Agricultural Engineering (MS): Systems Analysis Concentration (<http://catalog.ncsu.edu/graduate/agriculture-life-sciences/biological-agricultural-engineering/biological-agricultural-engineering-ms-systems-analysis/>)
- Biological and Agricultural Engineering (PhD) (<http://catalog.ncsu.edu/graduate/agriculture-life-sciences/biological-agricultural-engineering/biological-agricultural-engineering-phd/>)
- Biological and Agricultural Engineering (PhD): Systems Analysis Concentration (<http://catalog.ncsu.edu/graduate/agriculture-life-sciences/biological-agricultural-engineering/biological-agricultural-engineering-phd-systems-analysis/>)

Faculty

Geng (Frank) Bai, *Assistant Professor*

Area of Research: Precision and Digital Agriculture

Francois Philippe Birgand

Michael D. Boyette

Michael R. Burchell II

Celso Francisco Castro Bolinaga

Jay Jiayang Cheng

John J. Classen

Barbara A. Doll

Grant H. Ellington

Garey Alton Fox

Khara Deanne Grieger

Lucie S. G. Guertault

Scott A. Hale

Steven George Hall

William F. Hunt III

Daniela Jones

Praveen Kolar

Suzanne McKay Leonard

Chad Ashley Poole

Gary T. Roberson

Natalie G. Nelson Sagues

Ryan Sartor, *Assistant Professor*

Area of Research: Bioprocess Engineering

Chadi Sayde

Sanjay Bikram Shah

Mahmoud A. N. A. N. Sharara

Lingjuan Wang Li

Jason Kellam Ward

Lirong Xiang

Sierra Young

Mohamed A. Youssef

Wenqiao Yuan

George Maynard Chescheir III

Robert O. Evans Jr.

Garry L. Grabow

Rodney L. Huffman

Gregory Donald Jennings

Richard W. Skaggs

Jean Spooner

Larry F. Stikeleather

Daniel H. Willits

Practice/Research/Teaching Professor

Otto DeBruhl Simmons III

Adjunct Professors

Christopher R Daubert

Sheila Marie Saia

Ratna Rani Sharma

Adjunct Associate Professor

Wesley Mark Porter

Adjunct Assistant Professor

Kristina Hopkins