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 Chesheir 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