BIOLOGICAL AND AGRICULTURAL ENGINEERING
Graduate Programs

PROGRAM OVERVIEW

Our graduate program is one of the premier national programs in biological and agricultural engineering. Over the past few years, our department has had significant growth in nanotechnology, biotechnology, and biomedical engineering concentrations to expand our traditional agricultural and coastal engineering emphasis. An increasing number of young and active mid-level professors, winners of major national awards, work to continue to grow significant programs, garner large grants, and author excellent articles and books. Some of the best students in the country join our program. We recently welcomed students with National Science Foundation (NSF) fellowships, Board of Regents fellowships, and Diversity (ETD) fellowships. Our graduate program is an excellent choice for students interested in working with some of the finest scientists and engineers in their fields, as well as enjoying the unique culture and cuisine Louisiana has to offer.

DEGREES OFFERED

The Master of Science in Biological and Agricultural Engineering is offered in both thesis and non-thesis options. The MS degree is usually completed between 18 to 24 months. The thesis option requires 24 hours of coursework beyond the bachelor's and a publishable thesis. Non-thesis options require 36 hours beyond the bachelor's and a project. A guide for students pursuing the MS degree that describes the detailed requirements and a timeline from admission to graduation is available at lsu.edu/eng/bae/files/updated2019baegraduatehandbook.pdf

The Doctor of Philosophy program, or PhD program, typically requires three years of work beyond the master's degree, including a minimum of 42 hours of approved coursework beyond the bachelor's degree, at least half of which must be engineering courses and at least 12 hours in biological engineering, as well as a dissertation based on original research. A guide for students pursuing the PhD degree that describes the detailed requirements and a timeline from admission to graduation is available at lsu.edu/eng/bae/files/updated2019baegraduatehandbook.pdf

FINANCIAL ASSISTANCE

Research and teaching assistantships are available to qualified students on a competitive basis. PhD students may compete for Alumni Association or Board of Regents Graduate Fellowships.

GRADUATE COORDINATOR

Cristina Sabliov, PhD
csabliov@lsu.edu
225-578-1055

ADMINISTRATIVE COORDINATOR

Angela Singleton
asingleton@agcenter.lsu.edu
225-578-1055

FACULTY RESEARCH AREAS

Carlos Astete
caste1@lsu.edu — nanotechnology, bioactive delivery systems, and bioprocessing

Richard Bengston
bengston@lsu.edu — water pollution, soil erosion, hydrologic modeling

Dorin Boldor
dboldor@lsu.edu — food process engineering and bioenergy

David Constant
hscons@lsu.edu — transport and fate of hazardous substances, environmental engineering, bioremediation

Stacia Davis
sdavis@agcenter.lsu.edu — irrigation water management

Kevin Hoffseth
khoffseth1@lsu.edu — deformation and failure in biological composite materials

Jangwook Jung
jjung1@lsu.edu — engineering biomaterials for tissue regeneration, stem cell bioengineering

Yongchan Kwon
yckwon@lsu.edu — synthetic biology and bioengineering

Marybeth Lima
mlima1@lsu.edu — bioprocessing engineering, value-added processing

Elizabeth Carol Martin
emart93@lsu.edu — biomedical research

Todd Monroe
tmonroe@lsu.edu — molecular and cellular engineering

Cristina Sabliov
csabliov@lsu.edu — bioprocessing, nanotechnology, FEA modeling

Chandra Theegala
theegala@lsu.edu — by-product utilization, bioenergy, wastewater treatment, biosensing