

College of Engineering

# BIOSYSTEMS ENGINEERING

## Sustainable Solutions on Earth & Beyond

Biosystems engineers use big data to make breakthroughs in vital areas such as clean water, renewable energy, disease diagnostics and food production. The new age of agriculture calls not only for feeding a global population but also designing life support systems for colonies on other planets.



### INTERCONNECTED CURRICULUM

UA biosystems engineering students are guided by faculty experts as they delve into study areas connecting wise usage of energy, materials, biochemicals and recyclable wastes. Undergraduates, who can tailor their degree plans, achieve deep understanding of agriculture through a combination of technical knowledge, computer techniques, and control systems and biology.

### REWARDING CAREER PATHS

Biosystems engineering graduates pursue a wide range of interests in biofuels, environmental systems, soil and water conservation, and other fields. Alums enjoy lucrative careers in the public or private sector or continue their studies in engineering or medical school.



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## EXCELLENCE IN EDUCATION & RESEARCH

UA biosystems engineering students join faculty in modern labs to make groundbreaking discoveries in areas such as:

- Biometry and biosystems informatics
- Food, bioproducts and renewable energy
- Technology to counter epidemics
- Controlled environment agriculture
- Water resources



“ I am grateful for the opportunities I had with my senior design project and the faculty’s commitment to getting me involved with Biosphere 2 research for my master’s thesis. ”

Alum Lia Crocker, *Biosphere 2 research specialist*

## LEARNING FROM EXPERIENCE

Outside the classroom, students participate in a variety of activities to build leadership skills and prepare for the workforce.

- Paid internships with longtime industry partners
- Formal networking opportunities with faculty, alumni and industry
- Senior design projects with experienced industry mentors
- Research opportunities and field experience
- Student chapters of professional organizations
- National competitions

Among the major-specific clubs and organizations in which students are involved are the Biosystems Engineering Club and Controlled Environment Agriculture Student Association.

## A PLACE FOR EVERYONE

Various engineering clubs – American Indian Science & Engineering Society; National Society of Black Engineers; Out in Science, Technology, Engineering, and Mathematics; Society of Hispanic Professional Engineers, and Society of Women Engineers, for example – help ensure all students feel welcome and connected.

“ When the challenge is to sustainably feed 9 billion people, when climate requires counting every drop of water, and when smart multidisciplinary technology is the way, biosystems engineering will guide your career. ”

Kitt Farrell-Poe, *department head*



### Recruiting and Admissions

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### Advising

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