What to do with a degree in...

**BIOSYSTEMS ENGINEERING**

A degree in Engineering, Architecture or Technology provides the knowledge and tools for problem solving. Be aware that the actual work that engineers perform will vary depending on the company and industry in which they work. Some engineers work in a research or development capacity, while others serve in management roles. The work environment also varies, including outdoor work, work in an office setting, or a combination. Biosystems engineering has many different specializations within the degree which can open many different career paths. At the core of biosystems is the combination of engineering with various biological systems.

**SKILLS**

Biosystems engineering unites concepts from engineering and biology in the design and analysis of systems that protect and sustain the quantity and quality of water, soil, and other natural resources. It involves the design of processes, products, and equipment used in the production of food, feed, fiber, pharmaceuticals, and other biomaterials, integrates biology into the design of machines and mechanisms that directly interact with biological materials such as, soil, plants and animals, and emphasizes the engineering aspects of biochemical processes.

**CAREER PATHS**

- BIOMECHANICAL ENGINEER
- BIOMEDICAL ENGINEER
- ELECTRONICS DESIGN ENGINEER
- ENGINEERING TECHNICIAN
- ENVIRONMENTAL SPECIALIST
- FIELD ENGINEER
- FOOD ENGINEER
- MECHANICAL DESIGN ENGINEER
- PROCESS ENGINEER
- SOFTWARE TEST ENGINEER

**OPTIONS**

- BIOPROCESSING & FOOD PROCESSING
- ENVIRONMENT & NATURAL RESOURCES
- MACHINE SYSTEMS & AGRICULTURAL ENGINEERING
- PRE-MEDICAL

**WHO HIRES BIOSYSTEMS ENGINEERING MAJORS**

- AGCO, Cardinal Engineering
- Capstan Ag Systems
- Cowan Group Engineering
- Credera
- Ditch Witch
- Envirotech Engineering & Consulting
- Haskell Consulting
- John Deere
- Kubota Tractor Corp
- Meshak & Associates
- Mustang Construction Services Inc
- ONEOK INC.
- PepsiCo
- TreeHouse Foods
- USDA
- Zeeco
STARTING AVERAGE SALARIES

(DATA GATHERED FROM OSU CEAT GRADUATES)

2017 - $58,300
2018 - $58,300
2019 - $60,000

TIPS FOR SUCCESS IN BIOSYSTEMS ENGINEERING

- Obtain a co-op or internship experience as an opportunity to discover career interests and to serve as a great resume builder.
- Collaborate with local partners to design and implement sustainable engineering projects through study abroad opportunities or Engineers Without Borders.

GET INVOLVED ON CAMPUS

American Society of Agricultural and Biological Engineers (ASABE)
Cowboy Motorsports
Cowboy Waterworks

Additional Resources About Biosystems Engineering Careers:
www.asabe.org
bae.okstate.edu

MARKETABLE SKILLS OF BIOSYSTEMS GRADUATES

- Understand, analyze, and solve real-world problems in food, agricultural, environmental, and/or biological systems.
- Effective in oral, written, and visual communication.
- Work successfully as a member of a professional team and function effectively as responsible professionals.
- Perform in a professional and ethical manner.