

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)

2022 - \$67,200

2023 - \$67,500

2024 - \$73,650

## **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](http://www.asabe.org)

[bae.okstate.edu](http://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.



For More Information About  
Biosystems at OSU:

Prospective Student Services:  
(405) 744-5279

Career Services:  
(405) 744-3858

[HireOSUGrads.com](http://HireOSUGrads.com)