

# 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.

## CAREER PATHS IN BIOSYSTEMS ENGINEERING

- Electrical Engineer
- Electronics Design Engineer
- SLS RAM+T Systems Engineer
- Software Test Engineer
- Biomechanical Engineer
- Biomedical Engineer
- Engineering Technician
- Mechanical Design Engineer
- Field Engineer
- Environmental Specialist



## WHO HIRES BIOSYSTEMS ENGINEERING MAJORS

- Tinker Air Force Base
- Zeeco
- John Deere
- Boeing
- Frito Lay

**HIREOSUGRADS.com**

## BIOSYSTEMS ENGINEERING

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.

## 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.
- Acquire good computer, mathematic and analytical skills through challenging coursework and employment.
- Develop leadership abilities and communication skills through active participation in professional and student organizations such as Cowboy Waterworks, Cowboy Motorsports, or the OSU student branch of ASABE.
- Collaborate with local partners to design and implement sustainable engineering projects through study abroad opportunities or Engineers Without Borders.

FOR MORE INFORMATION ABOUT  
BIOSYSTEMS ENGINEERING AT OSU

**Prospective Student Services:**  
(405) 744-5276

**Career Services:**  
(405) 744-3858

## ADDITIONAL RESOURCES ABOUT BIOSYSTEMS ENGINEERING CAREERS

Biosystems and Agricultural  
Engineering at OSU:  
<http://bae.okstate.edu/>  
American Society of Agricultural and  
Biological Engineers:  
<http://www.asabe.org/>  
Oklahoma Agriculture Food and  
Forestry:  
<http://www.oda.state.ok.us/>  
Oklahoma Department of  
Environmental Quality:  
<http://www.deq.state.ok.us/>

## STARTING AVERAGE SALARIES

(Data gathered from OSU CEAT graduates)

**2010 – \$56,810**  
**2011 – \$54,480**  
**2013 – \$60,000**

## MARKETABLE SKILLS OF BIOSYSTEMS ENGINEERING 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.