

AGRICULTURAL AND BIORENEWABLE SYSTEMS MANAGEMENT, B.S.

Begin Campus: Any Penn State Campus

End Campus: University Park

Program Description

The Agricultural and Biorenewable Systems Management Major is an applied major that intertwines the study of engineering technology, natural resources, and agriculture with fundamentals of sustainability, business, operations, and management. Administered through the Department of Agricultural and Biological Engineering, the Agricultural and Biorenewable Systems Management (ABSM) program uniquely prepares students to solve 21st century problems and attain careers relating to the emerging circular bioeconomy. Students in this program will secure: (1) knowledge of fundamental and applied sciences related to resources, processes, and products in ag and biorenewable systems; (2) communication and managerial skills relevant to careers in product development, technology, sales, marketing and management; and (3) the ability to apply systems analysis skills, positioning them for effective problem solving and leadership in the agricultural and bioproducts industries.

Graduates find employment as technical consultants, quality assurance personnel, sustainability specialists, and sales and field representatives, in renewable bioproducts or related agricultural sectors such as: power and machinery systems, forest products, food production, bioprocessing, environmental systems, bioenergy, and co-product development.

Graduates may continue their education in a graduate program with a science, engineering, or business orientation.

What is Agricultural and Biorenewable Systems Management?

The Agricultural and Biorenewable Systems Management major integrates the study of engineering technology, applied sciences, and systems analysis with fundamentals of sustainability, business, operations, and management. Administered through the Department of Agricultural and Biological Engineering, the Agricultural and Biorenewable Systems Management (ABSM) program uniquely prepares students to solve 21st century problems and attain careers relating to the emerging circular bioeconomy.

You Might Like this Program If...

- You want to make a difference in the world by developing more efficient and sustainable technologies and systems.
- You want to engage in testing, development, and improvement of equipment, processes, or green (food and other bio-based) products.
- You want to demonstrate features, advantages, and benefits of new technologies or products and train service personnel.
- You are interested in systems management, business applications, or technical sales, with a focus on biorenewable and agricultural industries.