

Bioproducts and Biosystems Engineering with an emphasis in Bioproducts Engineering

About

A Bioproducts and Biosystems Engineering (BBE) degree with an emphasis in bioproducts engineering prepares graduates to develop sustainable solutions to meet the world's growing materials and energy demands. In addition to basic science and engineering fundamentals, bioproducts engineering students learn to design and develop engineering solutions for sustainable manufacturing and end-use applications of "green" products including biofuels, bioenergy, biodegradable plastics, building materials, paper, and chemicals.

It is a major very similar to chemical engineering with emphasis on using renewable materials as raw material and engineering processes to be more sustainable

Degree

Students graduate from our program with a Bachelor of Science from the University of Minnesota's College of Science and Engineering.



Career Opportunities

BBE graduates who specialize in bioproducts engineering are prepared to design, develop and implement process technologies and solutions for the sustainable utilization of renewable resources. They also learn how to manufacture biobased products, including biofuels, bioenergy, biochemicals, bioplastics, paper, building materials, biocomposites, and their applications.

Coursework

- Bioprocess Engineering
- Bioproducts/Reaction Engineering
- Bio-products Engineering Lab
- Separation Processes
- Process Control and Instrumentation
- Biopolymers and Biocomposites Engineering
- Renewable Energy Technologies
- Surface and Colloids Science

Positions

- Process Engineer
- Bioprocess Engineer
- Bioproducts Engineer
- Product Design Engineer
- Product Development Engineer • Production Engineer
- Technical Sales Engineer
- Engineering Consultant
- Plant Manager
- Research Engineer

Companies That Employ Our Graduates

- Ecolab, Inc.
- Georgia-Pacific
- POET
- Renewable Energy Group, Inc.
- Virent, Inc.
- Weyerhaeuser
- 3M
- Amec Foster Wheeler
- Anderson Corporation
- Boise Paper
- Cargill, Inc.
- Donaldson Company

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**BIOPRODUCTS AND
BIOSYSTEMS ENGINEERING**