Bioproducts and Biosystems Engineering

From biofuels, renewable energy, and bio-based plastics to systems for improving water and air quality, bioproducts and biosystems engineers create solutions in all stages of design, development, and manufacturing that promote sustainable utilization of renewable resources and enhancement of the environment.

Bioproducts and biosystems engineers design products and systems to meet the world’s growing needs for materials, energy, and food to address environmental sustainability.

This degree is closely aligned with employers’ needs and will make you a strong candidate for positions in industry, agencies, and consulting firms.

Specializations in this major include:

- Bioproducts engineering specialization
- Environmental and ecological engineering specialization
- Food engineering specialization

Student Experiences

There are more than 900+ student groups that you can get involved in at the University of Minnesota. They are designed to help you gain real-world experience.
and meet fellow students who share your interests.

Some groups that are popular with students in this major include:

- American Society of Agricultural and Biological Engineers
- Society of Women Engineers
- Technical Association of Pulp and Paper Industry
- Sustainable Systems Management Club
- Food and Bioproducts Engineering Organization

**Study Abroad Options**

More than 250 study abroad programs in 70 countries are available to University of Minnesota students. Study abroad can offer a global perspective on your studies in sustainability. Learn more about the benefits of study abroad through this program.

You might also explore

- Biomedical Engineering
- Chemical Engineering
- Sustainable Systems Management
- Biochemistry
**Associated Careers**


**Admission Information**

The Bioproducts and Biosystems Engineering major is a joint program between the College of Food, Agricultural and Natural Resource Sciences (CFANS) and the College of Science and Engineering (CSE).

Freshman have the opportunity to enter this program directly through the College of Science and Engineering or through the College of Food, Agricultural and Natural Resource Sciences. Students who are admitted into the College of Food, Agricultural and Natural Resource Sciences will spend their first two years completing lower division courses before transferring to the College of Science and Engineering for the remainder of the program.

*Regardless of which college you are admitted to, all Bioproducts and Biosystems Engineering students receive their degree from the College of Science and Engineering.*

**FRESHMAN:** [Minimum course requirements for freshman admission](#)

**TRANSFER STUDENTS:**

- Requirements for the [College of Science and Engineering](#)
- Requirements for the [College of Food, Agricultural and Natural Resource Sciences](#) *(students who do not meet CSE transfer requirements can still be considered for the program if they meet CFANS requirements)*