A Bioproducts and Biosystems Engineering degree with an emphasis in Environmental and Ecological Engineering integrates engineering principles, science, and design with the principles of biology and ecology.

Graduates are prepared to design, develop, and implement sustainable solutions for the mutual benefit of both natural systems and systems significantly affected by human activities.

Graduates have experience with applications to hydrology and hydrologic analysis, water, air, and soil quality, land-use management, ecosystem services, ecological restoration, and waste management.

**COURSEWORK**

- Ecological Engineering Principles
- Environmental Engineering
- Watershed Engineering
- Assessment and Diagnostics of Impaired Waters
- Air Pollution and Air Quality
- Ground Water Mechanics
- Process Control and Instrumentation
- Sustainable Waste Management Engineering

For more information, visit bbe.umn.edu, or contact Marlee Schlief at marlee@umn.edu.
CAREER OPPORTUNITIES

BBE graduates specializing in environmental and ecological engineering pursue a wide range of exciting careers addressing water resources and water quality, air quality and pollution control, soil conservation and sustainable use of natural resources. Projects include erosion and sediment control, bioreactor design and use, environmental bioremediation, pollution mitigation, and watershed management.

EMPLOYERS

- Barr Engineering
- MN Board of Water and Soil Resources
- MN Department of Natural Resources
- MN Department of Transportation
- MN Pollution Control Agency
- Short Elliott Hendrickson (SEH), Inc.
- SRF Consulting Group
- Watershed Districts

POSITIONS

- Environmental Engineer
- Ecological Engineer
- Biosystems Engineer
- Water Resources Engineer
- Engineering Consultant
- Project Manager
- Resource Conservation Engineer
- Project Engineer