Are you interested in developing solutions to improving air and water quality? Or what about investigating safer ways to dispose of hazardous wastes or produce renewable energy?

Bioenvironmental engineers prevent and solve environmental issues related to human activities by employing the principles of engineering and the fundamentals of the physical, chemical, and biological sciences. Their efforts result in sustainable systems for recycling and waste disposal, protection of water and air from pollution, environmentally sound energy generation and consumption, remediation of contaminated sites and innovative solutions for many other critical issues plaguing today's natural environment.

The program at Rutgers will give you a broad and multi-disciplinary education in the fundamentals of bioenvironmental engineering as well as proactive learning opportunities to utilize classroom learning in applications and design. A wide range of courses are offered to help you understand the impact of engineering solutions in a global, economic, environmental, and societal context.

“What can you do with a BEE degree?”

Air/water quality engineer
Environmental consultant/engineer
Energy conservation engineer
Process engineer in industry
Bioremediation engineer
Green infrastructure engineer
Hydraulic and hydrologic modeler
Environmental specialist in government

“Through classwork and hands-on assignments, I’ve learned how to design systems to prevent environmental problems and to remediate polluted sites. My training has prepared me for a successful career where I can improve the environment and people’s lives.”

Matt Leconey
Courses Offered

- Environmental Fate and Transport
- Air Pollution Engineering
- Hazardous Waste Treatment Engineering
- Environmental Law
- Bioenvironmental Engineering Design

Research Opportunities

- Rutgers Center for Urban and Environmental Sustainability (CUES)
- Rutgers Energy Institute (REI)
- Water Resources Program
- Rutgers Air Pollution Training Program (RAPTP)
- Aresty Research Center
- Douglass Project for Rutgers Women in Math, Science, and Engineering

Program Highlights

The Bioenvironmental Engineering program is preparing students to act as leaders in the community by applying environmental engineering solutions that have global and societal benefits and are consistent with the principles of sustainability.

As a bioenvironmental engineer you will solve human-related environmental issues by employing the principles of engineering along with physical, chemical, and biological sciences. Your efforts will largely encompass initiatives to improve public health, recycling and waste disposal, water and air pollution, and other issues plaguing today’s natural environment.

Students take basic engineering courses and physical, chemical, and biological sciences in the freshman and sophomore years. In the junior and senior years the fundamentals are applied for multidisciplinary problem solving in various environmental fields.

Bioenvironmental engineers, having an integrated knowledge of environmental engineering can look forward to excellent career opportunities following graduation. Numerous consulting firms that specialize in solving environmental problems exist in the Northeast and around the nation.

For more information, visit soe.rutgers.edu/bee

BEE Out Front

A first-year student researched microbes in Passaic River sediments and STEM Summer Stipends enabled her to present her research at conferences.