

The Bachelor of Science in Environmental Engineering

Help to protect earth's
precious resources as an
environmental engineer

The rapid growth of the environmental field over the last three decades is a reflection of the global nature of the economy and the rapidly expanding world population. It is now clear that the planet Earth is finite, and careful stewardship is essential in order to sustain a quality living environment.

Environmental engineers are at the forefront of optimizing and protecting Earth's precious resources. The demand for graduates of these programs will increase through the 21st century.

Questions & Answers



WHY STUDY ENVIRONMENTAL ENGINEERING AT NJIT?

NJIT's B.S. in Environmental Engineering program complements and supports New Jersey's role as a national leader in the development of regulations and strategies for protecting the environment. At NJIT, environmental engineering

They ... monitor and evaluate the quality of the air that we breathe, the water that we drink

is a key part of a broad curriculum that also includes environmental science and policy, green manufacturing, and sustainability. Environmental engineering students have opportunities in the classroom, in the laboratory, and in the field to broaden their perspectives and educational experiences. The university's Otto York Center for Environmental Engineering and Science, the first center in the nation especially constructed for cooperative public and private research in hazardous waste management, is a national leader in environmental research. Students are exposed to on-going research in such diverse and exciting areas as water resources, water quality, physical and chemical treatment processes, solid and hazardous waste engineering, air pollution, and green manufacturing.

Environmental engineering graduates are sought by private companies and consulting firms to evaluate environmental impacts and design environmental control systems. They also work for regulatory agencies at the local, county, state, and federal levels to oversee compliance with environmental standards. Those wishing to pursue additional education can pursue M.S. and Ph.D. degrees in environmental engineering, or they may well consider graduate programs in law, business, or health related fields.

WHAT AREAS OF CONCENTRATION ARE AVAILABLE?

The B.S. in Environmental Engineering program allows you to choose specialty electives in two areas of concentration:

- **Water Quality/Water Resources** involves the conception, planning, design, and construction of facilities to provide water for communities and industry. Courses include water resources engineering, geology courses, environmental remote sensing, and hydraulic engineering.
- **Physical and Chemical Treatment Processes** involves water supply management and treatment of wastewater. Coursework includes chemistry, water and wastewater treatment, industrial waste control, and special topics in mass transport.

WHAT OTHER WAYS ARE THERE TO SHAPE MY ACADEMIC PROGRAM?

NJIT offers a variety of ways to help you design an educational program that suits your career goals and interests:

The curriculum is computer intensive and laboratory courses reinforce concepts and principles taught in the classroom.

- **Albert Dorman Honors College**

Students who demonstrated superior levels of achievement in high school can continue on a challenging leadership track at NJIT's Albert Dorman Honors College. One of the nation's leaders in technologically oriented honors education, the Honors College offers qualified students a truly unique academic experience.

honors.njit.edu

- **Accelerated and Other Degree Options**

Interested students may opt for double majors (majors in two areas of study); dual B.S. degrees (two bachelor's degrees earned simultaneously); or an accelerated B.S./M.S. degree program (graduate credits earned during undergraduate studies). <http://www.njit.edu/catalog/undergraduate/00Fall/105.html>

- **Cooperative Education**

Many students elect for one or more semesters of Cooperative Education, earning academic credit and salary while gaining real-world experience at area businesses. www.njit.edu/CDS/StudentServices/Coop.htm

- **Research Opportunities**

Undergraduates have access to NJIT's engineering and computing laboratories. Faculty encourage undergraduate participation on research teams through the University Research Experience Program.

- **Academic Minors**

Students can tailor their course of study with one of more than two dozen academic minors that broaden their exposure and increase competence in an additional subject area. Some suggested minors include biology, chemistry, management, and information systems.

<http://www.njit.edu/catalog/undergraduate/00Fall/28.html>

- **Collaboration Programs with Rutgers-Newark**

NJIT students may enrich their educational experience by enrolling in courses at nearby Rutgers University-Newark in such disciplines as art, music, languages, biological sciences, and geology.

rutgers-newark.rutgers.edu/

IS FINANCIAL AID AVAILABLE?

The Office of Student Financial Aid Services helps to provide NJIT students with every opportunity to obtain funding to support their educational costs.

The university encourages all students to apply for financial aid.

<http://www.njit.edu/Directory/Admin/Admissions/finaid.html/>

FOR FURTHER INFORMATION

Contact: Dr. Lisa Axe, Associate Professor
Department of Civil and Environmental Engineering
New Jersey Institute of Technology
University Heights
Newark, NJ 07102-1982
Phone: (973) 596-2477
E-mail: axe@njit.edu

Office of University Admissions
New Jersey Institute of Technology
University Heights
Newark, NJ 07102-1982
E-mail: admissions@njit.edu
Phone: (973) 596-3300
www.njit.edu/Admissions/