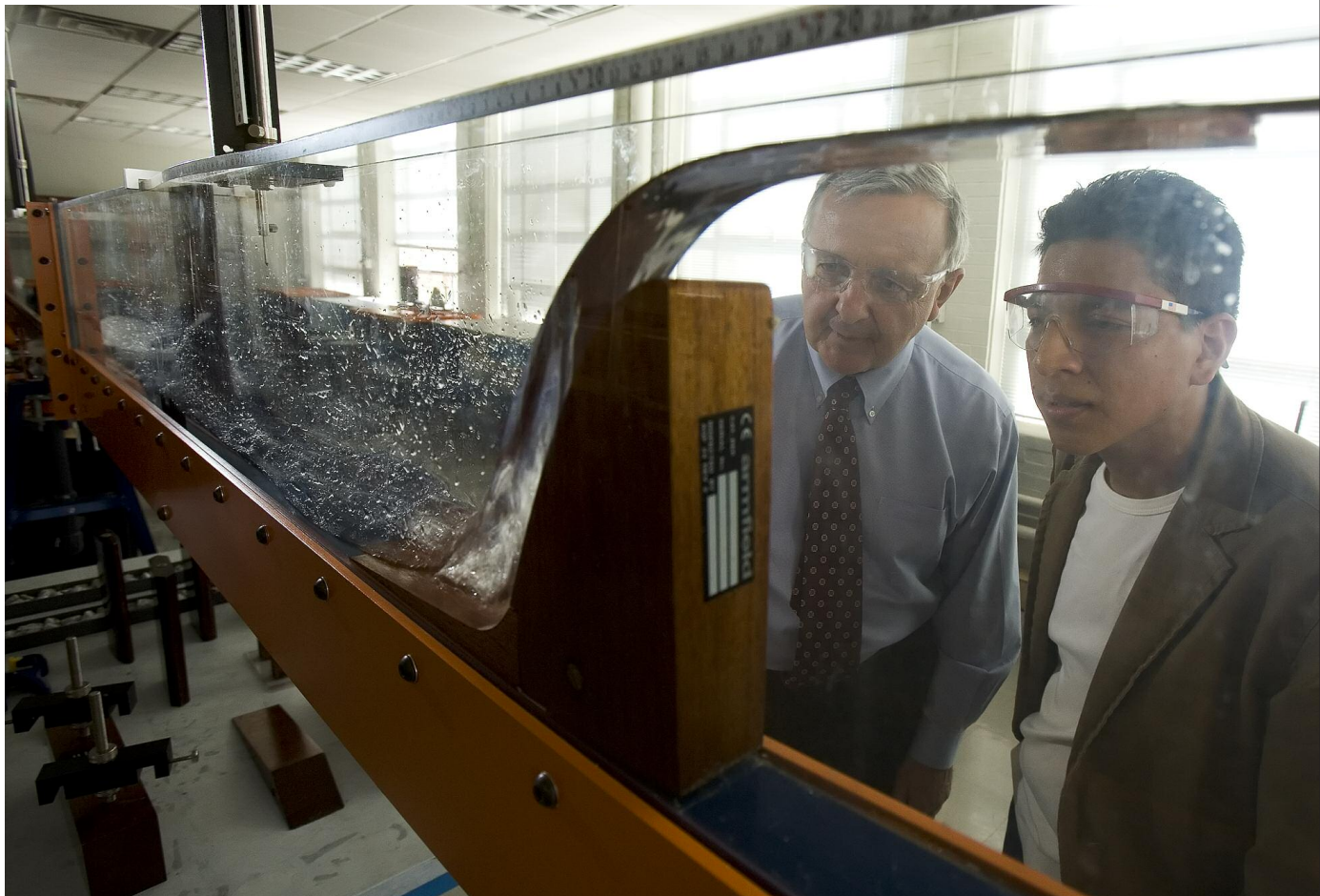


NJIT

New Jersey's Science &
Technology University

THE EDGE IN KNOWLEDGE

The Master of Science Program in Civil Engineering



Department of Civil and Environmental Engineering

Newark College of Engineering

New Jersey Institute of Technology

WHY PURSUE A MASTER'S IN CIVIL ENGINEERING?

Today's civil engineers are in the forefront of technology. They are the leading users of sophisticated high-tech products – applying the very latest concepts in computer-aided design (CAD) to support design, construction, project scheduling, and cost control. Civil engineering encompasses the planning, design, construction, and operation of facilities essential to modern life, ranging from transit systems to offshore structures to space satellites. Civil engineers are problem solvers, meeting the challenges of pollution, traffic congestion, drinking water and energy needs, urban redevelopment, and community planning. As the technological revolution expands, as the world's population increases, and as environmental concerns mount, the civil engineer has a vital role to play in improving the quality of life for the 21st century.

WHY STUDY CIVIL ENGINEERING AT NJIT?

NJIT's Department of Civil and Environmental Engineering has been providing quality education for nearly 90 years. Its graduates are leaders in industry, government and military enterprises throughout New Jersey and across the nation. The teaching program is enriched by advanced research programs in environmental engineering and science, building sciences and materials, and transportation. The department collaborates closely with NJIT's New Jersey School of Architecture, and a dual degree program that combines the Master's in Architecture with the MS in Civil Engineering is a popular option.

WHAT AREAS OF CONCENTRATION ARE AVAILABLE?

- Construction Engineering and Management
- Environmental Engineering
- Geoenvironmental Engineering
- Geotechnical Engineering
- Structural Engineering
- Transportation Engineering.

WHO SHOULD APPLY?

Applicants are expected to have an undergraduate degree in civil engineering or its equivalent, and must have proficiency in basic sciences and mathematics. Students who lack an appropriate undergraduate background may be granted conditional admission in order to complete a bridge program or its equivalent.

WHO TEACHES THE COURSES?

Courses are taught by full-time faculty with a range of academic and professional experience as well as by adjunct instructors who are experts in their fields. Students interested in research at the master's level or continuing their education at the doctoral level have the opportunity to work with faculty involved in one of the university's research centers.

ARE THERE OPPORTUNITIES FOR RESEARCH?

The Department of Civil and Environmental Engineering has an extensive research program with substantial grant funding. Focal areas include:

- Transportation
- Environmental Engineering
- Critical Infrastructure
- Geospatial Engineering

Students interested in research at the master's level or continuing on to the doctoral level may also consider working with faculty in one of the university's 20 multidisciplinary research centers, including the York Center for Environmental Engineering and Science, the Center for Architecture and Building Science Research, the International Intermodal Transportation Center and the National Center for Transportation and Industrial Productivity.

PROGRAM SUMMARY

Degree Awarded: Master of Science in Civil Engineering

Credits Required: 30

Program Objective: To provide in-depth knowledge in one of the areas of civil engineering that is essential for professional practice as well as for research.

SUMMARY OF ADMISSIONS REQUIREMENTS

BS in engineering, the sciences or other closely-related areas
GPA of 2.8 on a 4.0 scale required. Students not satisfying the regular admission requirements will be considered for conditional admission on a case-by-case basis, and a bridge program may be required.

IS FINANCIAL AID AVAILABLE?

Financial support may be available for qualified full-time students and might include: the Provost's Fellowship; a research assistantship; loans and work-study; cooperative education industry positions; and curricular practical training. A number of financial support options are available for targeted groups. These include Minority Academic Career (MAC) Fellowships and National Consortium for Graduate Degrees for Minorities in Engineering and Science (GEM) Fellowships. For further information on financial assistance programs, visit http://www.njit.edu/admissions/graduate/financial_support.php

FOR FURTHER INFORMATION, CONTACT:

Professor Methi Wecharatana, Associate Chair
for Graduate Studies
973-596-2458, wecharatana@njit.edu
civil.njit.edu/academics/ms_civil.php

TO APPLY:

Office of Graduate Admissions
(973) 596-3300 or on-line at
http://www.njit.edu/admissions/graduate/apply_online.php