GRADUATE PROGRAMS IN
CONSTRUCTION ENGINEERING AND MANAGEMENT

MASTER OF ENGINEERING
DOCTORAL PROGRAM
GRADUATE CERTIFICATES

STEVENS.EDU/GRAD-CEM
Prepare to lead global construction projects through a program of study that strengthens your technical training and develops your skills in managing costs, time, quality and safety controls. Stevens is one of just a few universities in the New York area to offer this cutting-edge curriculum – and the only program in the region to focus on mega projects.

Stevens students get access to job sites and learn how to win work, master cutting-edge planning software and analyze contemporary case studies. You will develop competitive leadership skills to help you pursue an executive-track career in the construction industry.

Stevens offer three study tracks, maximum curricular flexibility and one-of-a-kind classes tailored to students’ specific interests — all just 15 minutes from downtown Manhattan. You’ll have the opportunity to:

- Network with industry leaders
- Gain work experience through our co-op program
- Participate in study abroad opportunities
- Work with faculty experts from major projects such as the World Trade Center, Hudson Yards and the Catskill-Delaware Ultraviolet Water Treatment Facility

The demand for professionals in this field outstrips the number of qualified graduates and construction spending is growing around the globe. With a master’s from Stevens and specialized knowledge of construction engineering management, your career will have mega potential.
For International Students
While completing this program, students can take part in one year of Curricular Practical Training (CPT). Upon graduating, you will be eligible for Occupational Practical Training (OPT) with the STEM extension.
The Master of Engineering requires completion of a total of 30 hours of credit. Each student must complete six core courses (18 credit hours). Students choosing to complete a six-credit master’s thesis shall choose six additional credits from approved electives. Students not choosing to complete a thesis will take a practicum class for three credits and choose nine additional credits from approved electives. The elective classes must be chosen from among civil, environmental and ocean engineering graduate courses. Other elective courses are available upon the approval of the student’s academic advisor.

**CORE COURSES INCLUDE**

- Construction Engineering I and II
- Construction Safety Management
- Earth Supporting Structures
- Project Management for Construction
- Temporary Structures in Heavy Construction

One of the following:

- Construction Management Master’s Thesis, or
- Construction Management Practicum

One or more of the required core courses may be waived with the approval of your academic advisor.

**ELECTIVE COURSES INCLUDE**

- Problems in Heavy Construction
- Strategic Responses to Cyclical Environments
- Transportation Engineering
- Quality Management & Construction Performance
- Construction Contract Management
- Sustainable Design
- Green Construction

**DOCTORAL PROGRAM IN THE BUILT ENVIRONMENT**

This program explores theories guiding our understanding of the built environment and prepares research scholars, new faculty and professionals for positions in universities, the engineering profession and government. Students deepen their knowledge through a close advisor-student dynamic and independent research in the multidisciplinary architecture, engineering and construction industry. Scholars with a background in the built environment and a graduate degree in construction management, engineering, architecture or the equivalent are encouraged to apply. The program develops students’ ability to perform research or high-level design in civil or environmental engineering. A master’s degree is required. Your master’s-level academic performance must reflect your ability to pursue advanced studies and perform independent research.
Stevens offers the following programs leading to graduate certificates in construction management. Admissions requirements are the same as for the master’s program. The courses may also be used toward the corresponding Master of Engineering or Master of Science degree within the department with the approval of an academic advisor.

- Construction Professional Certificate
- Construction/Quality Management
- Construction Accounting/Estimating
- Construction Law/Disputes

**RESEARCH**

Our program supports cutting-edge student research, both theoretical and applied, and research opportunities with visiting and full-time faculty.

- Project Risk Management via Network Science
- Resilience and Exposure in Engineering/Construction Projects
- Knowledge Management and Mentorship in the Built Environment
- Theory of Endemic Mega Project Scope, Cost and Schedule Challenges
- Markov Chain and Semi-Markov Processes for Transportation Asset Management

**GRADUATE CERTIFICATE PROGRAMS**

Stevens offers the following programs leading to graduate certificates in construction management. Admissions requirements are the same as for the master’s program. The courses may also be used toward the corresponding Master of Engineering or Master of Science degree within the department with the approval of an academic advisor.

- Construction Professional Certificate
- Construction/Quality Management
- Construction Accounting/Estimating
- Construction Law/Disputes
WHO SHOULD APPLY

We welcome applicants who have a passion for construction and a drive to innovate. You can apply with an undergraduate degree in civil engineering wishing to obtain specialized knowledge in construction engineering, project controls and management. Students with other engineering backgrounds may have to take additional prerequisites which will be determined on a case-by-case basis at time of admission.

Application requirements include:
• Bachelor’s degree, with a minimum GPA of 3.0, from an accredited institution
• Official college transcripts
• Two letters of recommendation
• Resume (optional)
• Statement of purpose (Ph.D. program only)
• TOEFL or IELTS scores (for international students)
• GRE scores

ABOUT STEVENS INSTITUTE OF TECHNOLOGY

Stevens Institute of Technology is a premier, private research university situated in Hoboken, New Jersey overlooking the Manhattan skyline. Since our founding in 1870, technological innovation has always been the hallmark and legacy of Stevens’ education and research. Within the university’s three schools and one college, 6,600 undergraduate and graduate students collaborate closely with faculty in an interdisciplinary, student-centric, entrepreneurial environment. A range of academic and research programming spanning business, computing, engineering, the arts and other fields actively advances the frontiers of science and leverages technology to confront our most pressing global challenges. The university is consistently ranked among the nation’s elite for return on tuition investment, career services and the mid-career salaries of alumni.

ABOUT SCHAEFER SCHOOL OF ENGINEERING & SCIENCE

The Charles V. Schaefer, Jr. School of Engineering & Science (SES) is dedicated to preparing the next generation of technology leaders by offering a multi-disciplinary, design-based education. With eight departments and an intensive curriculum for undergraduates, master’s and doctoral candidates, SES is dedicated to supporting hands-on learning, research and technology transfer that provides each student with invaluable, experiential knowledge. SES is globally recognized for its world-class faculty and leading-edge research facilities.