GRADUATE PROGRAMS IN
COMPUTER ENGINEERING

MASTER OF ENGINEERING
MASTER OF SCIENCE
DOCTORAL DEGREE
GRADUATE CERTIFICATES

STEVENS.EDU/GRAD-CE
Become a sought-after engineer with a degree that gives you the cutting-edge knowledge and industry connections to get ahead. Stevens Institute of Technology’s graduate programs in computer engineering provide you with a strong mix of theory, applied research and technical knowledge that can boost your career prospects in innovative fields such as:

- Algorithms and software design
- Applied data structure
- Big data
- Biomedical imaging and engineering
- Cybersecurity
- Digital and computer architecture
- Internet of Things
- Machine learning
- Real-time and embedded systems
- Smart grids
- Smart healthcare
- Software-defined radios
- Very-large-scale integration (VLSI) design

Just 15 minutes from downtown Manhattan, Stevens provides you with excellent career networking opportunities. Our award-winning co-op program offers invaluable workplace experience — and many of our graduates go directly to Wall Street or major tech firms.

Choose from career-focused concentrations with classes that emphasize hands-on project work. Study with renowned faculty members, including National Academy of Engineering (NAE) members, IEEE Fellows, major grant recipients, patent holders and editors of prestigious journals. Experiment with the latest technology and theories in our influential laboratories and research centers.

You’ll gain experience and knowledge that’s hard to beat and earn a degree backed by Stevens’ outstanding reputation for engineering innovation.
CAREER OPPORTUNITIES

• Computer Engineer
• Design Engineer
• Project Engineer
• Systems Integration Engineer
• Systems Engineer
• Field Service Engineer
• Network Engineer

TOP HIRING ORGANIZATIONS

• AT&T
• Bank of America Merrill Lynch
• Bloomberg
• Comcast
• Facebook
• Goldman Sachs
• Google
• Intel
• JPMorgan Chase
• LGS Innovations
• Microsoft
• Morgan Stanley
• Quest Diagnostics
• Samsung
• Uber
• US Army CERDEC and PEO STRI
CURRICULUM

The Master of Engineering (M.Eng.) and Master of Science (M.S.) require the completion of 30 hours of credit. Each student must complete one mathematical foundation course and two core courses plus the course requirements for one of the computer engineering concentrations. Electives can be chosen from among select graduate courses and may require the approval of the student's academic advisor. The M.Eng. requires the completion of two hardware/software skills courses. The M.S. requires the completion of two analytical skill courses. Both the M.Eng. and M.S. offer a thesis option.

MATHEMATICAL FOUNDATION COURSES (select one)
• Analytical Methods in Electrical Engineering
• Applied Discrete Mathematics
• Probability and Stochastic Processes I
• Applied Modeling and Optimization

CORE COURSES (select two)
• Digital and Computer Systems Architecture
• Real-Time and Embedded Systems
• Applied Data Structures and Algorithms
• Introduction to VLSI Design

CONCENTRATIONS

Students must complete a three-course concentration sequence appropriate for any one of the concentration areas below. A course used as a core course can also be used to satisfy the requirement for three courses in a concentration, providing more flexibility in choosing electives. For more information on recommended elective courses under each concentration, check the academic catalog on the Stevens website or consult with an academic advisor.

• Robotics and Control
• Computer Architectures
• Embedded Systems
• Microelectronics and Photonics
• Communications and Signal Processing

• Power Engineering
• Software Engineering
• Data Engineering
• Networks and Security
• Networks: Business Practices

DOCTORAL PROGRAM IN COMPUTER ENGINEERING

If you want to impact the future of computer engineering, our Ph.D. program gives you the support, knowledge, facilities and mentorship you need to break new ground. Stevens Ph.D. students receive full funding and work closely with renowned faculty on our rapidly growing slate of federally sponsored research projects.

Stevens’ location also offers excellent opportunities for collaborations that can turn into job offers upon graduation. Partners include major research laboratories such as Bell Labs, AT&T Labs, NEC Labs, IBM Research and Google New York.
RESEARCH

Our renowned laboratories give you the opportunity to explore cutting-edge hardware and software development, as well as theoretical and applied research projects with faculty and regional institutions.

- Multimedia Systems, Networking and Communications Lab
- Data Analysis and Information Security (DAISY) Lab
- Wireless Information Systems Engineering Lab
- Embedded Systems & Robotics Laboratory
- Signal Processing & Communications Lab

GRADUATE CERTIFICATE PROGRAMS

Students in graduate certificate programs must meet the same admission and performance standards as regular degree graduate students. Each of the certificate programs requires 12 credits (four courses), all of which are transferable to the appropriate master's degree program.

- Autonomous Robotics
- Digital Signal Processing
- Digital Systems and VLSI Design
- Microelectronics and Photonics
- Multimedia Technology
- Networked Information Systems
- Real-Time and Embedded Systems
- Secure Network Systems Design
- Software Design for Embedded and Information Systems
- Wireless Communications
WHO SHOULD APPLY

We welcome applicants who have a passion for computer engineering and a drive to innovate for technological progress. You can apply with an undergraduate degree in electrical engineering, computer engineering or a related field.

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 (recommended, but not required)

ABOUT STEVENS INSTITUTE OF TECHNOLOGY

Stevens Institute of Technology, The Innovation University®, is a premier, private research university situated in Hoboken, N.J. overlooking the Manhattan skyline. Founded in 1870, technological innovation has been the hallmark and legacy of Stevens’ education and research programs for more than 145 years. Within the university’s three schools and one college, 6,600 undergraduate and graduate students collaborate with more than 290 full-time faculty members in an interdisciplinary, student-centric, entrepreneurial environment to advance the frontiers of science and leverage technology to confront global challenges. Stevens is home to three national research centers of excellence, as well as joint research programs focused on critical industries such as healthcare, energy, finance, defense, maritime security, STEM education and coastal sustainability.

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.