GRADUATE PROGRAMS IN

ELECTRICAL ENGINEERING

MASTER OF ENGINEERING
MASTER OF SCIENCE
DOCTORAL DEGREE
GRADUATE CERTIFICATES

STEvens.EDu/GRAD-EE

STEvens
INSTITUTE OF TECHNOLOGY
THE INNOVATION UNIVERSITY®
Pursue a fascinating and lucrative career in next-generation electronic technologies with a relevant and respected master’s degree in electrical engineering from Stevens Institute of Technology. Develop a strong mastery of theory, applied research skills and technical knowledge while focusing on innovative topics in the fields of signals and systems, control, wireless information and networks, security, communications and robotics.

Choose from a number of concentrations shared with our computer engineering and information and data engineering programs for a blended skill set that will make you stand out in the job market. Just 15 minutes from downtown Manhattan, Stevens also 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 after the program.

You will also have the opportunity to work with our renowned faculty members, including National Academy of Engineering (NAE) members, IEEE Fellows, major grant recipients, patent holders and editors of prestigious journals. By the end of the program, you’ll have in-depth experience that is hard to match — as well as the highly respected reputation of a Stevens engineering degree behind you.
CAREER OPPORTUNITIES

- Electronics Design Engineer
- Principal Systems Engineer
- Information Technology Manager
- Electrical Engineer
- Application Engineer
- Test Engineer
- Applications Engineering Manager

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
The master’s degree requires the completion of 30 hours of credits. Each student must complete one mathematical foundation course and two core courses plus the requirements for one of the computer engineering concentrations. Electives can be chosen from among select graduate courses but may require approval by a student’s academic advisor. Two hardware/software skill courses are required for the Master of Engineering; two analytical skill courses are required for the Master of Science. A thesis option is available for both master’s programs.

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.

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 Signal Processing
- Introduction to Control Theory
- Linear Systems Theory
- Communications Theory

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 ELECTRICAL ENGINEERING

Prepare for leadership in research, teaching and industry with our Ph.D. in electrical engineering. This fully funded program gives you the support, knowledge, facilities and mentorship you need to break new ground and shape the future of electronic technology.

You’ll work closely with renowned faculty on our rapidly growing slate of federally sponsored research projects. Our New York metro area location offers excellent opportunities for collaborations with nearby universities and major corporate research labs that can generate job offers upon graduation.
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

**GRADUATE CERTIFICATE PROGRAMS**

Our renowned laboratories and centers of excellence support cutting-edge student experiments, as well as theoretical and applied research opportunities with faculty.

- Software-defined radios and cognitive radio networks
- Robotics and control
- Internet of Things
- Image processing
- Mobile and sensor networks

- Multimedia technologies
- Networked systems security
- Signal processing
- Wireless communications
- Smart grids
- Medical applications

**RESEARCH**

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

**RESEARCH**
WHO SHOULD APPLY

We welcome applicants who have a passion for electrical engineering and a drive to innovate for technological and electronic 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.