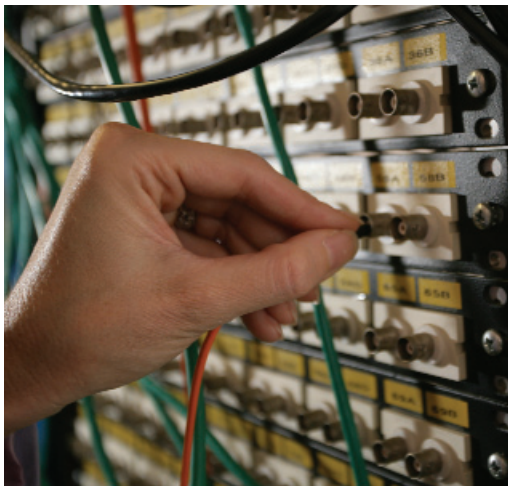
Cybersecurity



Average Starting Salary of Stevens Computer Science Graduates:

$60,750*

(data from Class of 2007)

As the need for data security increases in all industries including medicine, banking, and homeland security, the demand for professionals with knowledge in the areas of information assurance and computer security continues to grow. In 2003, as a part of the National Strategy to Secure Cyberspace, the White House identified as a top priority the necessity of maintaining a pool of well-trained and certified IT security specialists through providing comprehensive training and education.

While cryptographers strive for the best possible solution to a security issue, the implementation of their work is too often restricted by technological limitations, cost restraints and human factors that were not considered as part of the original design process. For effective solutions to gain practical relevance, the end users must be willing and able to use the technology, and the solution must provide a significant economic benefit. The Stevens program in Cybersecurity integrates the science, technology and management skills you'll need to design, create and apply these innovations.

The Cybersecurity program at Stevens is one of the few undergraduate programs that addresses these issues. Our unique program combines work in computer science and mathematics with a security-driven focus, creating the kind of interdisciplinary atmosphere that is essential to finding creative, effective solutions to issues of security and information assurance. Students seeking careers in this growing field will find the Stevens program offers a well-rounded range of courses that will prepare them for the evolving challenges they will confront in the field of cybersecurity.

A degree from Stevens will ensure that you will examine and participate in the full cycle of innovation through our philosophy of Technogenesis. You will see that at Stevens your research becomes reality through the collaboration of students, faculty and industry partners as they bring new technologies to market.

Faculty and Research

Stevens strongly encourages all students to participate in faculty-mentored research or design, allowing you to experience the thrill of creating new scientific or technical

Companies Hiring Stevens Graduates

Citigroup

Johnson & Johnson

MITRE

Morgan Stanley

Picatinny Arsenal

Prudential

UBS

Vanguard

knowledge. At Stevens, you will have access to top-level research facilities and decorated faculty who are respected throughout the world for their contributions to their fields. You will work with security experts who have a wealth of industrial experience that has helped them to understand the need for an interdisciplinary approach to security issues and have responded by developing this unique program. At Stevens you will also find recipients of National Science Foundation grants, pioneers in nanotechnology, innovators in microchemical systems, leaders in wireless network security, and trailblazers in homeland security. They are among the faculty who will work with you to push the envelope of discovery and innovation.

This new program is supported and funded by a variety of grants and awards. In 2003, Stevens was named a Center of Academic Excellence in Information Assurance Education by the National Security Agency; in 2004, Stevens faculty members were awarded a National Science Foundation Scholarship for Service Capacity Building grant to support the establishment of interdisciplinary degrees in cybersecurity; and in 2005, Cisco awarded Stevens an equipment award toward the construction of a new lab, while the National Science Foundation awarded Computer Science faculty members a grant for the construction of a cybersecurity lab. All of these make possible the kind of hands-on educational experience that will help get you ready for your career in this exciting and emerging field.

As part of your course of study you will work in labs such as the Wireless Network Security Center or our Laboratory for Secure Systems. Students will participate in a variety of research projects including advances in cryptography and wireless security, Bluetooth sensors, verification properties in programming languages and much more.

Examples of Cybersecurity Courses

Fundamentals of Cybersecurity
Secure Systems
Cybersecurity Laboratory
Foundations of Cryptography
Privacy in a Networked World
Legal Issues for the IT Professional
Computers and Society

Career Development

Stevens students find tremendous success through our Office of Career Development. Whether they choose to participate in our Cooperative Education program or take on summer research or internships, our location across the Hudson River from New York City puts our students in the hub of world commerce, research and government agencies. Employers recruit Stevens students because they know their preparation and skills are exceptional.

With the individualized help and attention from our Career Development staff, Stevens students secure rewarding positions at companies in many different industries, including financial services, pharmaceuticals, telecommunications, government, and manufacturing.

The Office of Career Development at Stevens was ranked 16th in the nation by *The Princeton Review.*

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