



CYBERSECURITY: Scholarship and Job Opportunities

Malware Invasion in Cyberspace

- Blackhole Malware Exploit Kit (2012)
- Shamoon Virus (2012)
- Stuxnet Worm (2010)
- Operation Aurora (2009)
- and many others...

Job Opportunities

**Organizations Need More Skilled
Cyber Professionals to Stay Secure !**

- Private sector
- Government
- Non-profit organizations

Specialty Areas

- **Securely Provision:** conceptualizing, designing, and building secure IT systems, with responsibility for some aspect of the systems' development;
- **Operate and Maintain:** supporting, administering, and maintaining the effective and efficient IT system performance and security;
- **Protect and Defend:** identifying, analyzing, and mitigating threats to internal IT systems and networks;

Specialty Areas (contd.)

- **Investigate:** investigating cyber events and/or crimes of IT systems, networks, and digital evidence;
- **Operate and Collect:** highly specialized collection of cybersecurity information that may be used to develop intelligence;
- **Analyze:** highly specialized review and evaluation of incoming cybersecurity information to determine its usefulness for intelligence;
- **Support:** providing support so that others may effectively conduct their cybersecurity work.

Job Title Examples

- Risk and Vulnerability Analyst
- Auditor
- Business Process Analyst
- Database Administrator/Developer
- Information Resources Manager
- Security Analyst
- Intrusion Analyst
- Ethical Hacker
- Computer/Network Defense Analyst (cryptologic)
- Computer Crime Investigator
- Special Agent
- Digital Forensic Examiner

**Pace University
is a
National Center of
Academic Excellence in
Information Assurance
Education**



Undergraduate Programs

- [Bachelor of Science in Information Technology](#)
 - Security and Information Assurance Concentration
- [Bachelor of Science in Professional Technology Studies](#)
 - Computer Forensics Concentration
- [Minor in Information Assurance in the Criminal Justice System](#)
- [Certificate in Information Assurance in the Criminal Justice System](#)

Graduate Programs

- Master of Science in Computer Science
 - Network Security Concentration
 - Web Security Concentration
- Master of Science in Information Systems
 - Security and Information Assurance Concentration
- Master of Science in Internet Technology
 - Security and Information Assurance Concentration
- Advanced Certificate in Secure Software and Information Engineering
- Advanced Certificate in Security and Information Assurance

Co-Curricular Activities

- Independent Research
- Independent Project
- Guest Speaker Seminar/Talk
- Conference Participation
- Professional Organization Membership
- Competition
- Internship

Labs

- Cybersecurity Lab - Pleasantville campus
 - Faculty Lead: Li-Chiou Chen, Ph.D.
- Mobile Forensics Lab - New York City campus
 - Faculty Lead: Darren Hayes, DPS
- Robotics Lab – New York City campus
 - Faculty Lead: Paul Benjamin, Ph.D.
- Pervasive Computing Lab
 - Faculty Leads: Charles Tappert, Ph.D. and Sung-Hyuk Cha, Ph.D.
- Seidenberg CyberSecurity Institute
 - Faculty Lead: Bel Raggad, Ph.D.

Scholarship Programs

- Information Assurance Scholarship Program
 - Funded by the Department of Defense
- Federal Cyber Service: Scholarship for Service
 - Funded by the National Science Foundation
- Seidenberg Scholarships
- Honors College Scholarships

Other Awards:

- Transfer Student Incentive Award
- Various University and School-based opportunities

Scholarship Eligibility

- U.S. citizen and 18 years of age;
- Currently enrolled in, or applied for transfer to, an undergraduate program at Pace University;
- Pursue or intend to pursue a course of study in cybersecurity as approved by the Program Director;
- Be within two years of graduation;
- GPA of at least 3.2 (UG) or 3.5 (Grad);
- Meet selection criteria for federal employment, including obtaining a security clearance;

Scholarship Benefits

- FULL tuition and all academic fees that apply for the duration of the program (two years typically)
- Stipend for each year in the program
- Textbooks allowance for each year in the program
- Paid summer internship with the government between the scholar's first and second year in the program*
- Full-time employment with the government*

** The SFS Scholars are responsible to apply for and obtain a position. The Scholarship Program will provide help in identifying employment opportunities.*

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