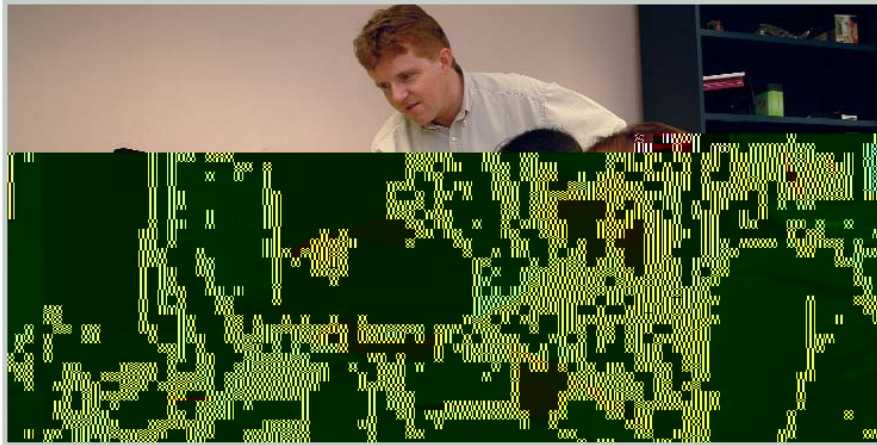


Information Systems



Information technology jobs comprise five of the top ten salaries in the U.S., according to the Bureau of Labor Statistics' forecast of the 30 fastest growing jobs through 2014. Almost all of these jobs are in the areas of software engineering and systems analysis. *Money* magazine has rated software development and systems analysis as two of the "Top Ten Best Jobs" to hold, rating them highly for pay and flexibility, and rating software development highly for creativity. High-level positions in these information technology fields require a demanding skill set for job entry. Stevens' Information Systems program provides a world-class grounding that prepares you for exciting careers in these fields.

The Information Systems (IS) program is designed for those seeking the background and experience needed to apply the principles of information technology in support of the major functions of a business or public institution. Information systems specialists work to manage the collection, manipulation, storage, distribution, and utilization of an organization's information. The Stevens IS major distinguishes itself by its technical rigor, and by providing high-level instruction in software development and systems analysis. Stevens' IS curriculum is multi-disciplinary, combining a solid background in business practice with the technical information technology core essential for today's competitive IS careers.

Research shows the U.S. workforce faces a growing shortage of professionals with skills in information technology, particularly in the high-end software development and systems analysis fields. A burgeoning demand for IS jobs, and a drop in the number of IS graduates due to popular misconceptions of outsourcing of information technology jobs are among the reasons for this trend. The extent of outsourcing has been greatly exaggerated, with recent studies revealing that the types of jobs being outsourced are often low-level programming, testing, and IS support jobs. In fact, the cost savings from low-end information technology off-shoring are enabling greater investment in forms of information technology that require more qualified IS professionals.

The Stevens IS Curriculum

Stevens' Information Systems undergraduate program is specifically designed to train you to be a highly skilled IS professional who can take advantage of these trends, and gain entry into challenging and rewarding careers path in software development and systems analysis. The most important skills in software development and systems analysis combine a strong background in information technology, particularly creativity and problem-solving, with personal and business skills such as customer-client interaction, business case considerations, and project management. An information

Systems education at Stevens emphasizes both a strong foundation in IS, and the development of the business abilities required of today's IS professional. Stevens' Information Systems program is one of only several in the country to require a two-semester senior design project course emphasizing these skills.

In the "spine" of the Information Systems program you will take a two-year sequence of courses developing basic software engineering skills, including algorithmic problem-solving, design, coding, and testing. This is supplemented by a mathematical sequence providing you with both rigor and the mathematical maturity that the modern IS professional draws upon. Subsequent

Average Starting Salary

(class of 2006)

\$59,500

Highest Accepted Salary

\$70,000

Employers of Stevens Computer Science Graduates

Accenture ♦ BAE Systems
Citigroup ♦ Deutsche Bank
Federal Reserve Bank of New York
Goldman Sachs ♦ Johnson & Johnson
L'Oreal ♦ Merrill Lynch
Morgan Stanley ♦ Northrop Grumman
UBS Financial ♦ Vanguard

Courses

Web Programming
Databases
Systems Programming
Organizational Behavior
Marketing
Accounting
Systems Analysis
Information Management
Cybersecurity
Privacy
Senior Project Course

courses build on this core to provide a background in advanced Information Systems concepts.

A senior year, two-semester capstone project course teaches you the principles and theory of programming-in-the-large, including teamwork, problem solving, and "agile" software development methods. The course is modeled on business software development practices, so you'll experience a transition from academia to business. You will produce useful, well-engineered software products, applying software engineering techniques, ethical principles, and generally accepted software practices. Many projects are sponsored by companies or government agencies, such as the Federal Aviation Administration (FAA), Siemens, and Citicorp. Information Systems students in the course choose a project with a specific IS emphasis.

Both the two-year skills "spine" and the senior year capstone project course are shared between Information Systems and Computer Science majors. This ensures that IS majors obtain the rigorous grounding in IS skills needed for success. While the Computer Science program is designed to allow majors to drill down to specific technical areas, the Information Systems program allows you to focus on business and management functions, including accounting, marketing, and organizational behavior.

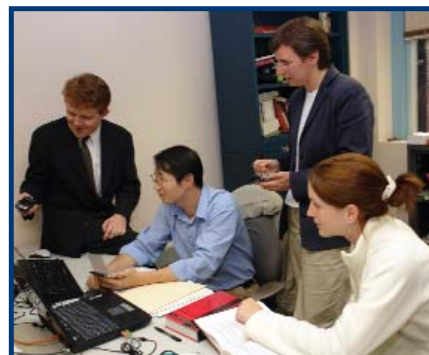
The IS program also provides a specific focus on systems analysis and information management: how an organization (be it business, government, or any other kind of organization) can structure its IS function, and how the IS manager relates to the rest of the managerial structure.

In recognition of the modern IS environment, the IS program has an additional emphasis on networked information. Courses in systems programming, Web programming, and databases demonstrate the opportunities offered by IS in managing information. Courses in cybersecurity and privacy address the technical, managerial, and legal hazards that must be addressed in the modern networked world. While much of the IS core is shared with the Stevens Cybersecurity and Computer Science majors, IS mainly focuses on organizational aspects of information management.

A typical career path you might follow as an IS major is an entry-level software developer/systems analyst position, rising eventually to Chief Information Officer (CIO) or Chief Technical Officer (CTO) in an organization. The IS major's emphases on information management and project management are essential preparation for either of these career paths.

The Computer Science department at Stevens offers rigorous and rewarding programs that far exceed those of other uni-

versities. Stevens has been named a Center of Academic Excellence in Information Assurance Education by the National Security Agency, a program that aims to reduce vulnerability on our national information infrastructure. The Princeton Review and Forbes have ranked Stevens among the top 20 Most Entrepreneurial Campuses in the nation. A Stevens education will challenge and inspire you, preparing you to become a leader in your field of choice.



Companies that Hire Information Systems Students from Stevens

Whether for cooperative education, internship, or full-time employment after graduation, many companies look to Stevens for employees of the highest caliber. Some of the companies that recruit at Stevens include:

ADP
Colgate Palmolive
Hertz
Hunter Douglas
Lehman Brothers
PSEG
Siemens Corporate Research
Siemens Medical Solutions
UPS
Vollmer Associates
Wytech Industries



Find out about Information Systems at Stevens today.

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