The Computer Science faculty is dedicated to giving students a full measure of the excitement of this rapidly evolving field. The Computer Science major prepares students both for a professional career in the field of computers and for graduate study if that is the student’s inclination. Graduates work in a large variety of high technology industries including the defense industry, the pharmaceutical industry, and in the information technology industry itself. Indeed any career that requires disciplined thought is available to a Computer Science graduate. A major in computer science allows students to become part of an exciting, fast-paced and pervasive industry. Careers in computer science-related fields are to be found in almost all areas of human endeavor. The field changes rapidly, but always in the direction of providing greater and more varied opportunities. As long as you can solve problems for others you will be in demand. Graduates are prepared for careers in consulting, communications, information science, computer programming, information technology and systems analysis.

**LEARN MORE ABOUT THE COMPUTER SCIENCE MAJOR:**

- Visit the Computer Science Department’s website: [www.sju.edu/academics/cas/computerscience](http://www.sju.edu/academics/cas/computerscience)
- Visit the College of Arts and Sciences Advising Support Center, located in Barbelin 122
- Contact the Computer Science Department to schedule a meeting with a faculty member by calling 610-660-1567
- Speak with current students in the major
- Schedule an appointment with the Career Development Center by calling 610-660-3100

**WHAT CAN I DO WITH A MAJOR IN COMPUTER SCIENCE?**

Whatever you put your mind to! You can learn much more at [www.onetonline.org](http://www.onetonline.org). Following are descriptions of just a few of the careers you might pursue:

**Computer and Information Scientist:** Conducts research into fundamental computer and information science as theorists, designers, or inventors. Solves or develops solutions to problems in the field of computer hardware and software.

**Computer Programmer:** Converts project specifications and statements of problems and procedures to detailed logical flow charts for coding into computer language. Develops and writes computer programs to store, locate, and retrieve specific documents, data, and information. May program web sites.

**IT Specialist:** Provides technical assistance to computer system users. Answers questions or resolves computer problems for clients in person, via telephone or from remote location. May provide assistance concerning the use of computer hardware and software, including printing, installation, word processing, electronic mail, and operating systems.

**Security Analyst:** Plans, coordinates, and implements security measures for information systems to regulate access to computer data files and prevent unauthorized modification, destruction, or disclosure of information.
**Systems Analyst:** Analyzes science, engineering, business, and all other data processing problems for application to electronic data processing systems. Analyzes user requirements, procedures, and problems to automate or improve existing systems and reviews computer system capabilities, workflow, and scheduling limitations. May analyze or recommend commercially available software. May supervise computer programmers.

**HOW CAN I ENGAGE MY INTEREST IN COMPUTER SCIENCE OUTSIDE THE CLASSROOM?**
There are so many opportunities to get involved at Saint Joseph’s University and beyond— and to develop experience in your major while doing so! Here are just a few:

A.C.M. (Computer Science Club)  
B.I.T.S. (Business Info. & Tech Society)  
Summer Scholars  
Upsilon Pi Epsilon

**OUTCOMES - A CLOSER LOOK AT SJU GRADUATES WITH DEGREES IN COMPUTER SCIENCE:**

As depicted in the chart below, the majority of new graduates have started their careers in the technology field. Many others have selected a variety of industries. (Data from Saint Joseph’s University Career Development Center’s Post-Graduation Survey, 2008-2012)

![Computer Science Majors' Chosen Industries](image)

**Here is a sampling of positions our new graduates have accepted:**

<table>
<thead>
<tr>
<th>Position</th>
<th>Technology</th>
<th>Finance</th>
<th>Government</th>
<th>Consumer Products/Retail</th>
<th>Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Development Analyst</td>
<td>22%</td>
<td>7%</td>
<td>14%</td>
<td>7%</td>
<td>50%</td>
</tr>
<tr>
<td>Business Systems Analyst</td>
<td>7%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Programmer</td>
<td>22%</td>
<td>7%</td>
<td>14%</td>
<td>7%</td>
<td>50%</td>
</tr>
<tr>
<td>Computer Technician</td>
<td>7%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consultant</td>
<td>7%</td>
<td>7%</td>
<td>14%</td>
<td>22%</td>
<td>50%</td>
</tr>
<tr>
<td>Developer</td>
<td>7%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental Technician</td>
<td>7%</td>
<td>7%</td>
<td>14%</td>
<td>22%</td>
<td>50%</td>
</tr>
</tbody>
</table>

**Organizations who have hired our new graduates include**

- Accenture Technology Solutions
- AT&T
- ATX Communications
- Bearing Point
- Bowne & Co., Inc.
- CHI Systems
- Citibank
- Computer Sciences Corporation
- CubeSmart
- Independence Blue Cross
- Information FRONTiers, Inc.
- Intel
- iPipeline
- JPL Productions
- Just Ceramic Tile
Some of the graduate schools in which our students have continued their education, in programs including Computer Science and Physical/Life Sciences:

Georgia Institute of Technology  Saint Joseph's University  University of Delaware

Average Starting Salary – Computer Science Majors – Classes of 2008-2012

<table>
<thead>
<tr>
<th>Graduation Year</th>
<th># of Respondents</th>
<th>Average Salary</th>
<th>Average Bonus</th>
<th># of Bonuses</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>Too little data to report (number of respondents was less than 5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td>Too little data to report (number of respondents was less than 5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2010</td>
<td>Too little data to report (number of respondents was less than 5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2009</td>
<td>Too little data to report (number of respondents was less than 5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2008</td>
<td>9</td>
<td>$35,300</td>
<td>$3,000</td>
<td>1</td>
</tr>
</tbody>
</table>

FURTHER ASSISTANCE WITH YOUR MAJOR AND CAREER OPTIONS

The Career Development Center can help you with the process of choosing a major and exploring your career options. For assistance, please call 610-660-3100 to schedule an appointment to meet with a Career Counselor.

GETTING THE JOB – SAMPLE COMPUTER SCIENCE MAJOR RESUME:

See below
PROFESSIONAL PROFILE
Recent graduate looking to obtain a full-time position within the Greater Philadelphia Area related to the Information Technology field that will utilize the skills learned within the classroom as well as build upon experiences gained through internships. Technical skills include:

- Microsoft XP, Vista
- Microsoft Office Suites
- Intermediate Java
- Entry Level C and C#
- SAP
- LAN/RJ45 Cable Testing Equipment
- Desktop / Laptop PC’s and associated peripheral equipment

EDUCATION
Saint Joseph’s University, Philadelphia, PA
Bachelor of Science, Computer Science; 3.41 GPA | May 2012

EXPERIENCE
AmerisourceBergen, Chesterbrook, PA
Intern, May 2011 – Aug 2011
- Utilized SAP Enterprise Resource Planning Core Component (ECC) to run, document and improve the current functional unit tests and regression tests
- Provided data analysis of customer data and contracts using Microsoft Access
- Authored a technical document (user guide) to aid colleagues in their day-to-day work with SAP
- Worked with Solutions/Systems Analysts on a custom component of SAP
- Project team member focused on enhancing the Customer Experience for AmerisourceBergen

Springfield School District, Springfield, PA
- Installed Cat5, Cat5e and Cat6 cable, data jacks, phone jacks and 700, 3000 and 4000 series wire-mold throughout the elementary, middle and high schools to improve upon and add to the existing technology
- Installed and set-up various equipment such as Smart Boards, projectors, speakers and A/V equipment for streamlining the education process, making it easier for teachers to integrate technology into their daily lessons
- Took the lead on network and communications installations

Saint Joseph’s University IT Department, Philadelphia, PA
- Installed and troubleshot hardware and software for applications, computers and related peripheral equipment such as printers and external hard drives
- Supported the application and operating system software updates
- Provided support for all desktop and laptop computers for virus and spyware/malware removal

HONORS/AWARDS
- Member, Upsilon Pi Epsilon, International Honor Society for the Computing and Information Disciplines (April 2011 - Present)
- Vice President, Association for Computing Machinery (Fall 2011-Spring 2012)
- Dean’s List (Fall 2009, Spring 2010, Fall 2011)
- Presidential Scholarship, Saint Joseph’s University