COLLEGE MAJORS AND CAREERS

Computer & Information Science

What is Computer & Information Science?

Computer and information science focuses on the design, application, and effectiveness of computers and information technology. A professional working in this area analyzes and develops effective methods to solve problems utilizing computer hardware and software. This includes management, implementation and dissemination of information. Theorists, designers, or inventors in this field have the ability to conduct research about fundamental computer and information science.

Marketable Skills of Computer and Information Science Majors

- Proficiency with computers and knowledge of latest technology
- Written and oral communication skills
- Ability to organize, analyze and interpret data
- Ability to evaluate problems and make appropriate decisions and recommendations
- Ability to cope with constant change
- Ability to meet deadlines
- Mathematical inclination and enjoyment of analytical thinking
- Ability to think out-of-the-box

Related Careers and Hiring Institutions


The rapid spread of computers and information technology has generated a need for highly trained workers proficient in various job functions in most industries. In addition to technical skills, companies seek candidates with a diversified range of skills incorporating communication and interpersonal skills. Work can often be done from remote locations. Employment may be found in academic institutions, healthcare, government, consulting firms, manufacturer, computer or software companies. Many people can develop advanced computer experience in a non-computer occupation and transfer those skills to occupations in the areas of financial services and management.

According to the Bureau of Labor Statistics, Computer Software Engineers, Computer Systems Analysts and Network and Computer Systems Administrators are each projected to be among the 10 fastest growing occupations through 2014. All ideally require a Bachelor's degree and are rated as paying high wages.
Here is a brief list of institutions and organizations that have hired computer and information science majors. Please note that further education/experience may be required for some of these occupations:

- Banks
- Colleges and Schools
- Community Organizations
- Computer Service Providers
- Computer Vendors
- Consulting Firms
- Engineering Companies
- Financial Organizations
- Governmental Agencies
- Hospitals
- Insurance Companies
- Large Corporations
- Online Computer Service Companies
- Research Institutions
- Software Vendors
- Utility and Phone Companies
- Web Site Development Companies

**Professional Organizations**

Association for Computing Machinery [www.acm.org](http://www.acm.org)
Computing Research Association [www.cra.org](http://www.cra.org)
New York Software Industry Association [www.nysia.org](http://www.nysia.org)
Women in Technology International [www.witi.com](http://www.witi.com)
Association of Information Technology Professionals [www.aitp.org](http://www.aitp.org)
Institute of Electrical and Electronic Engineer Computer Professionals [www.computer.org](http://www.computer.org)

**Need More Information?**

Brooklyn College’s Department of Computer and Information Science:
2109 Ingersoll Hall, [http://www.sci.brooklyn.cuny.edu/cis](http://www.sci.brooklyn.cuny.edu/cis)
Email: [cis@sci.brooklyn.cuny.edu](mailto:cis@sci.brooklyn.cuny.edu), Phone: (718) 951-5657

**For more information concerning career options** for computer and information science, majors consult the following resources available in the Career Library, 1303 James Hall:


Indianapolis, IN: JIST.

**Online Resources:**

[http://computingcareers.acm.org/](http://computingcareers.acm.org/)
[http://career.brooklyn.cuny.edu/majors/default.html](http://career.brooklyn.cuny.edu/majors/default.html)
[http://magenercenter.myplan.com](http://magenercenter.myplan.com)
[http://online.onetcenter.org](http://online.onetcenter.org)
[http://www.bls.gov/oco](http://www.bls.gov/oco)
[http://www.dice.com](http://www.dice.com)
[http://www.computerjobs.com](http://www.computerjobs.com)
[http://www.justcomputerjobs.com](http://www.justcomputerjobs.com)