**COMPUTER SCIENCE**

Computer Science is the science of using computers to solve problems. This mostly involves designing software and computer programs and addressing fundamental scientific questions about the nature of computation. It also involves many aspects of hardware and architecture for the large computer systems that form the infrastructure of commercial and government enterprises. Computer scientists work in many different ways: pen-and-paper theoretical work on foundations and fundamentals of coding, designing software and computer programs, programming work using a computer, and collaborative teamwork to complete research and solve software and programming issues.

**Skills Acquired**
- Present projects and information logically
- Train and collaborate with others
- Explain technical and theoretical concepts
- High-level programming and algorithm design
- Identify and understand patterns
- Organize and manage complex data
- Troubleshoot and problem solve within constraints

**Sample Occupations**
- Computer & Information Manager
- Research & Development Engineer
- Computer Systems Analyst
- Web Developer/ Administrator
- Telecommunications Specialist
- Network Designer
- Computer Security Specialist
- Bioinformatics Professional
- Network/Info Security Analyst
- Software Engineer
- Computer Support Specialist
- Consultant

**Sample Work Settings**
- Computer Systems Design & Related Services
- Semiconductor and Other Electronic Component Manufacturing
- Scientific Research and Development Services
- Computer and Peripheral Equipment Manufacturing
- Navigational, Measuring, Electromedical, and Control Instruments Manufacturing
- Software Publishers
- Specialized Design Services

**Sample Employers**
- Motorola
- Fidelity Investments
- Sony Electronics
- Intel
- Yahoo
- BAE Systems
- Siemens
- Department of Homeland Security
- Microsoft
- Department of Defense
- Apple
- Google
- Facebook
- IBM

**Computer Scientist Annual Salary** *(BLS, 2017)*: Regional Average: $131,980 | National Average: $119,570

**PROFESSIONAL ORGANIZATIONS**
Learn more about the field, network, and search for scholarship, internship, and job opportunities.
- Association for Computing Machinery [www.acm.org](http://www.acm.org)
- International Association of Computer Science & IT [www.iacsit.org](http://www.iacsit.org)
- Association for Women in Computing [www.awc-hq.org](http://www.awc-hq.org)
- Computing Research Association [https://cra.org](https://cra.org)
- American Association for Artificial Intelligence [https://aaai.org](https://aaai.org)

**JOB SEARCH RESOURCES**
Keywords: Network, Analyst, Software, Database, Machine Intelligence
- Engineering Central [www.engcen.com](http://www.engcen.com)
- Engineering Jobs [www.engineerjobs.com](http://www.engineerjobs.com)
- Engineering.com [www.engineering.com/jobs](http://www.engineering.com/jobs)
- iHireEngineering [www.ihireengineering.com](http://www.ihireengineering.com)
- Computer Work [http://computerwork.com](http://computerwork.com)
- Dice [www.dice.com](http://www.dice.com)