COMPUTER ENGINEERING

Computer Engineers typically design new computer hardware, create blueprints of computer equipment, and oversee the manufacturing process for completed computer hardware models. In addition to analyzing and modifying hardware designs, Computer Engineers also develop new software. Computer Engineers are responsible for maintaining knowledge of computer engineering trends and new technology.

Skills Acquired
- Use logic and reasoning to set goals
- Identify the strengths and weaknesses of alternative solutions
- Implement plans to address complex problems
- Communicate with other technical and nontechnical team members
- Organize and manage complex data

Sample Occupations
- Computer Engineer
- Software Developer
- Desktop Engineer
- Test Automation Engineer
- Database Developer
- Test Engineer
- Systems Engineer

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

Sample Employers
- Citrix
- Texas Instruments
- QUALCOMM
- Hewlett-Packard
- Expedia
- Intel
- Yahoo
- Cisco
- Intuit
- Amazon
- Microsoft
- NVIDIA
- Oracle
- Apple
- Google

Software Developer Annual Salary (BLS, 2017): Regional Average: $111,570 | National Average: $111,780

Computer Hardware Engineer Annual Salary (BLS, 2017): Regional Average: $122,440 | National Average: $119,650

PROFESSIONAL ORGANIZATIONS
Learn more about the field, network, and search for scholarship, internship, and job opportunities.
- The Association of Computer Engineers and Technicians www.ace-acet.org
- IEEE The Community for Technology Leaders www.computer.org
- Association for Computing Machinery www.acm.org
- International Association of Computer Science & IT www.iacsit.org

JOB SEARCH RESOURCES
Keywords: Computer Architecture, Hardware, Circuits, Cloud Computing, Software Design
- Engineering Central www.engcen.com
- Engineering Jobs www.engineerjobs.com
- Engineering.com www.engineering.com/jobs
- iHireEngineering www.ihireengineering.com
- Computer Work http://computerwork.com