



What can I do with my Major?

COMPUTER ENGINEERING

SAMPLE JOB TITLES

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[Computer Hardware Engineer](#)
[Computer Network Architect](#)
[Computer Systems Engineers/Architects](#)
[Computer Programmer](#)
[Computer Systems Analyst](#)
[Software Development Specialist](#)
[Computer Security Specialist](#)
[Computer Software Engineer](#)
[Technical Support Engineer](#)
[Software Engineer](#)
[Computer Consultant](#)
[System Administrator](#)
[Database Administrator](#)

UCONN RESOURCES

[Department of Electrical and Computer Engineering and Computer Science and Engineering](#)
[Information Management Association](#)
[Optical Society of America](#)
[Society of Photonic Instrumentation Engineers](#)
[Upsilon Pi Epsilon](#)
[Engineering Student Leadership Council](#)
[Tau Beta Pi](#)
[Society of Hispanic Professional Engineers](#)
[National Society of Black Engineers](#)
[Women in Math, Science and Engineering](#)
[Society of Women Engineers](#)

OTHER RESOURCES

[Tech Web](#)
[Association for Computing Machinery](#)

OVERVIEW OF MAJOR

The Computer Engineering degree encompasses a wide range of topics, including operating systems, computer architecture, computer networks, robotics, artificial intelligence, and computer-aided design. It is a program designed to meet the rapidly expanding demand for engineers with strong design skills. The three areas of focus include real-time computing systems, communication and computing networks, and VLSI design/fabrication. The skills that students acquire through the program are : digital logic design, computer architecture, software engineering, compiler design, operating systems, and algorithms. In this major, students also develop a strong base in both computer science and electrical engineering; they learn about the hardware and software aspects of computer science and gain a solid understanding of circuit theory and electronic circuits.

NATURE OF WORK

Computer engineers coordinate the construction, maintenance, and future growth of a company's computer systems. They make suggestions about what technical direction is best for the company. Most computer engineers enter the profession at companies that have already made uncertain steps into the technical world. Computer engineers are faced with uncertain budget restrictions, are presented with old or misapplied systems, and are expected to know the nuances of each department's needs. It is important to become familiar with the companies and each of their departments' functions and learn how to use second-best systems in order to satisfy their needs.

