What can I do with my Major?

COMPUTER ENGINEERING

SAMPLE JOB TITLES

Visit O*Net and conduct an Occupation Quick Search of each job title to learn more about that career path.

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.