



## COMPUTER ENGINEERING

College of Engineering  
[www.aus.edu/cen](http://www.aus.edu/cen)



Computer engineers are responsible for designing and troubleshooting computer hardware and software. Computer engineers are typically trained in areas such as electronic engineering, software design and hardware-software integration. Computer engineers might find themselves working on items such as microcontrollers, microprocessors, personal computers and supercomputers. Computer engineers look at not only how computer systems work but also how computer systems play a role in other complex systems.



### Possible Career Options

- Author
- AI Designer/Developer
- Business Systems Analyst
- Client Support Representative
- Computer Engineer
- Computer Security Analyst
- Database Developer
- Hardware Systems Designer



### Possible Employers

- Engineering Firms
- Non-Profit Organizations
- Governmental Organizations
- Colleges/Universities
- Research Firms
- Consulting Firms
- Tech Firms
- Defense Firms



### Skills Required

- Proficiency in oral and written communications
- Detail-oriented
- Ability to organize, analyze and interpret numerical data
- Creative approach to problem solving
- Critical thinking skills
- Ability to interpret data
- Ability to work independently or as part of a team
- Ability to concentrate for long periods of time



### Personal Attributes

- Achievement-oriented
- Capacity for detail and order
- Capacity for analytical and logical thinking
- Patient
- Capacity for precision
- Thorough
- Skills with numbers
- Resourceful
- Have integrity



### Ways to Get Experience

- Doing an internship
- Working part-time or volunteering in an engineering firm
- Volunteering as a research assistant in a university's computer engineering department
- Joining a professional organization or related student club