

# Computing Careers



## Earnings

U.S. Average \$69,230, with the highest 10% earning more than \$183,820



## Career Growth

'Bright outlook' according to the Occupational Information Network, with expected faster-than-average career growth



## Computer Science

### Careers

- Application or systems programmer
- Interface designer
- Server software developer
- Software engineer
- Mobile applications developer
- Quality assurance engineer

### Responsibilities

- Developing solutions to solve problems
- Considering the limitations of machines and resources
- Developing algorithms and data structures
- Utilizing high-level languages, such as C, Java, or C++, which can take full advantage of system hardware and software resources



## Cybersecurity

### Careers

- Security software developer
- Cryptographer
- Cryptanalyst
- Security consultant
- Security Analyst
- Security Engineer
- Security Architect
- Security Administrator

### Responsibilities

- Identifying and prioritizing risks
- Designing, implementing, and testing controls
- Recognizing, containing, and recovering from attacks
- Balancing security concerns with other factors including costs and usability



## Information Systems

### Careers

- Business application programmer
- Systems analyst
- IS/IT manager
- Database manager
- ERP administrator
- Business decision support specialist
- Data mining specialist

### Responsibilities

- Working with technology managers and users
- Writing and managing programs to codify technology
- Developing code for business transaction systems
- Implementing systems in languages such as COBOL, C++, Visual Basic, or Java
- Designing and administering databases



## Information Technology

### Careers

- Network manager
- Internet / intranet manager
- Technical support specialist
- Programmer
- Systems analyst
- Web developer
- Chief technology officer
- Data quality manager
- Data center specialist

### Responsibilities

- Installation of networks
- Network administration and security
- Designing web pages
- Developing multimedia resources
- Installation of communication components
- Oversight of email systems
- Planning and managing the technology lifecycle

It is not unusual to find computer science, information technology, or information systems graduates holding similar jobs because there are similarities between the programs.