

Nearly three out of four new science or engineering jobs in the United States will be in computing, according to the Bureau of Labor Statistics. But what kind of computing job is right for you? If you are interested in majoring in either computer science or software engineering but do not know which to choose, use this chart to explore the differences and similarities between these two exciting and lucrative fields.

COMPUTER SCIENCE

Main goal Provide the basic science and practical techniques of computing

Primary focus Study of the theoretical foundations of computing and their application in information systems

Common curricular components

Distinguishing curricular components Networking
Database management
Artificial intelligence
Computing theory

Typical jobs Software development manager
Database management systems administrator
Network administrator

SOFTWARE ENGINEERING

Build effective and efficient software systems using a rigorous engineering approach

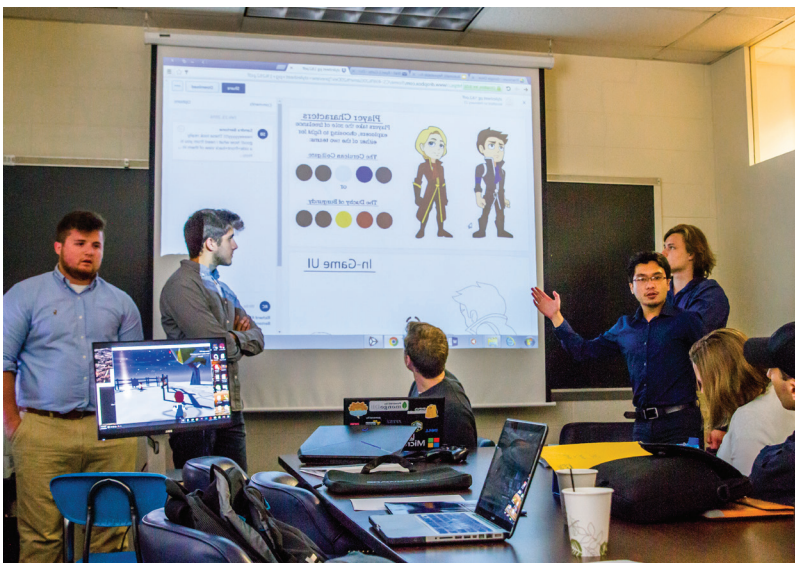
Application of a systematic, disciplined, and quantifiable approach to the development and maintenance of software

Programming fundamentals
Basic computer science theory
Mobile apps
AR/VR development
Video game development
Cyber Security

Software requirements
Software design and architecture
Software verification and validation
Software engineering processes
User experience engineering

Requirements engineer
User experience engineer
Software architect

Software developer/engineer
Software tester
Mobile app developer
AR/VR developer
Web developer
Full Stack Developer



Why computing at Monmouth University?

- Second and third fastest growing jobs in America are computing
- Five-year B.S./M.S. program
- Abundant internship opportunities

CSSE Internship partners:

- Commvault
- FAA/Aviation Research Tech Park
- Alcatel-Lucent
- Veterans Affairs (VA)
- DefinedLogic
- Mitre
- Nihaki Systems

Median Salary: \$105,000 (national study)
[indeed.com/career/Software-Engineer/salaries](https://www.indeed.com/career/Software-Engineer/salaries)