College of Engineering

SOFTWARE ENGINEERING

Overcoming Tech Infrastructure Challenges

Software engineers solve complex problems in space exploration, automation and connectivity, and human and intelligent systems. Bolstered by intensive design experiences and focused on large-scale product and system development to meet societal needs, the University of Arizona's curriculum goes far beyond programming fundamentals and theoretical applications.

In Step with Industry

Students in this interdisciplinary degree program gain specialized software skills in high demand by top employers. Students learn about DevOps, agile methodology, and continuous integration and deployment. Each semester, they develop leadership skills through real-world projects emphasizing teamwork, critical thinking and professionalism.

Burgeoning Field

U.S. News & World Report ranks software developer, or engineer, as the best technology job in the United States, and the second-best job across all categories. Jobs in the field are expected to grow quickly, and the median salary is over $110,000, according to the Bureau of Labor Statistics.

The University of Arizona

ecse.engineering.arizona.edu

COLLEGE OF ENGINEERING

School of Electrical, Computing & Software Engineering

Excellence in Education & Research

Globally recognized faculty and students collaborate across campus and around the world to tackle some of humanity's biggest challenges.

- Autonomous systems and robotics
- Communications, coding and information theory
- Computer architecture and cloud/distributed computing
- Cybersecurity
- Data analytics, informatics and machine learning
- Embedded systems
- Health care systems
- Wireless networking, security and systems

> Software engineering opened doors I never thought existed. Its diverse skill set caught employers' attention, leading to opportunities and job offers across industries.
>
> **Amber Parker**, *student*

Learning From Experience

Outside the classroom, students participate in a variety of activities to build leadership skills and prepare for the workforce.

- Paid internships with longtime industry partners
- Formal networking opportunities with faculty, alumni and industry
- Senior design projects with experienced industry mentors
- Research opportunities and field experience
- Student chapters of professional organizations
- National competitions and student clubs, such as Software Engineering Wildcats

A Place for Everyone

Various engineering clubs – American Indian Science & Engineering Society; National Society of Black Engineers; Out in Science, Technology, Engineering, and Mathematics; Society of Hispanic Professional Engineers, and Society of Women Engineers, for example – help ensure all students feel welcome and connected.

> Companies want to be part of this because they know they're going to reap the benefits from having highly skilled software engineering graduates.
>
> **Sharon ONeal**, *professor of practice, electrical & computer engineering*

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