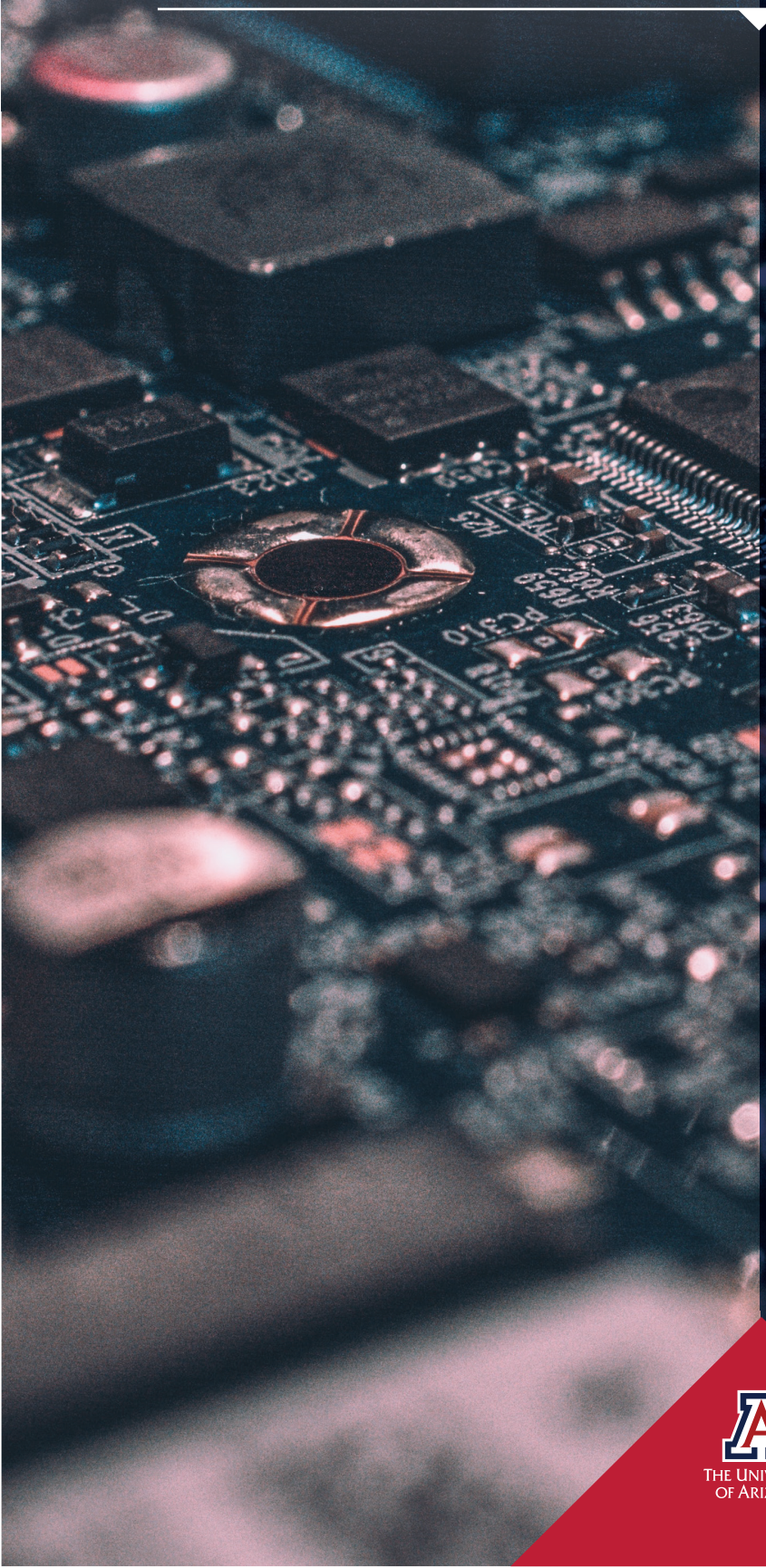
College of Engineering

COMPUTER SCIENCE AND ENGINEERING



An Engineering Edge

Computer scientists shape tomorrow's interconnected world through broad knowledge of complex computing technologies. The combination of multidisciplinary curriculum and engineering focus gives students the foundation to become in-demand professionals in one of the most important and rewarding STEM fields.

Industry-Driven, Applied Academics

Based in the UA School of Electrical, Computing, & Software Engineering, the newest degree program was developed with industry partners to prepare students for emerging challenges and opportunities. Courses in quantum computing, artificial intelligence, virtual reality, software development, data analytics, cybersecurity, and robotics, for example, incorporate projects and emphasize hands-on learning while teaching the engineering mindset.

Unwavering Demand

Employers are unable to fill 1 million related jobs in the United States, as estimated by the Bureau of Labor Statistics. And employment will grow much faster than average through 2031, while the number of graduates will continue to lag behind job openings. Alums can choose among graduate programs, industries or government agencies. The median salary for jobs in this group is more than $97,000.

The University of Arizona

@azengineering

ecse.engineering.arizona.edu

COLLEGE OF ENGINEERING

School of Electrical, Computing & Software Engineering

Solid Foundation in a Dynamic Field

Faculty members are experts in solving problems through engineering methods and instill not only computing theory and technical skills, but also communication, teamwork, critical thinking and professionalism. Computer science and engineering students get hands-on experience using technology, tools, languages and methodologies in a range of applications.

- Software development
- Real-time, embedded and IoT systems
- Collaborative research projects in other engineering specialties such as autonomous vehicles and mining operations
- Big data analytics and bioinformatics
- Hardware and software co-design

"The demand for computer science and engineering roles is consistently high. This program elevates the workforce abilities within Arizona."

Karla Morales, *Arizona Tech Council regional VP and Dean's Advisory Council member*

Work-Ready Extracurriculars

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

- Paid internships
- Student clubs and organizations
- Interdisciplinary design projects
- Professional organizations

Student clubs and organizations include the Software Engineering Wildcats, University of Arizona Robotics, and the Institute of Electrical and Electronics Engineers (IEEE).

A Place for Everyone

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

"Being part of this very interdisciplinary engineering college exposes our students not only to computer science knowledge but also applications in a wide variety of engineering domains."

Michael Wu, *ECSE head*

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