

Faculty Position in Software Engineering  
**Department of Systems and Industrial Engineering**  
**The University of Arizona**

The Department of Systems and Industrial Engineering (SIE) at the University of Arizona invites applications and nominations for a tenure-track position in Software Engineering at all levels (Assistant, Associate, and Full) with an anticipated start date of August 2022. Specific areas of interest include (1) Software Requirements Analysis and Testing, (2) Software Assurance, Quality, and Reliability, (3) Formal Methods in Software Engineering, (4) Software Project Management, and (5) Artificial Intelligence in Software Engineering. Candidates for senior ranks must have a distinguished record of published research, demonstrate significant impact on the profession, and success at securing funding to support a research program.

The successful candidate will be expected to establish a strong research program, help define and grow the newly established Software Engineering undergraduate degree program, teach undergraduate and graduate courses, and contribute to mentoring students, including those from traditionally underrepresented backgrounds. The successful candidate will also be expected to contribute to an environment that nurtures collaboration among researchers across the College and University. The successful candidate will also participate in outreach and contribute to departmental, college, and university service. In these, and other ways, the faculty member will help to develop innovative approaches to enhancing student engagement, increasing diversity, ensuring equity, and expanding collaborations with community and business partners.

The SIE Department was founded in 1960 as the first degree-granting Department of Systems Engineering in the world. The Department now houses three integrated academic programs leading to Accredited BS degrees in Systems Engineering, Industrial Engineering, and Engineering Management, as well as MS degrees in Systems Engineering, Industrial Engineering, and Engineering Management, and a PhD degree in Systems and Industrial Engineering. Additionally, the Department participates in the nationally ranked interdisciplinary MS degree program in Cybersecurity, in partnership with the Eller College of Management.

The BS degree program in Software Engineering was newly established in Fall 2021 in collaboration between the SIE and the Electrical and Computer Engineering Departments. While the faculty position is in the SIE department, the successful candidate will be part of the Software Engineering program. There will be significant opportunity for the successful candidate to define and grow the new Software Engineering program, including new graduate degree programs and new research programs that are likely to be developed in the future.

The University of Arizona, a Research I, Land-grant, Hispanic Serving institution, ranks 20<sup>th</sup> among public institutions in annual research expenditures, while the Department of Systems and Industrial Engineering is ranked among the top 25 programs by the US News and World Report. The Department has strong programs in the fundamentals of systems engineering, operations research and industrial engineering, including optimization, stochastic systems, data analytics, systems engineering and design, modeling and simulation, informatics, and is involved in several interdisciplinary programs, such as Space Situational Awareness Arizona Initiative, Transportation Research Institute, Defense

and Security Research Institute, Data Science Institute, Institute for Energy Solutions, Arizona Institutes for Resilience, BIO5 Institute, Institute on Place, Wellbeing & Performance, and Additive Manufacturing Initiative. Additional details can be found on the department web page: <http://sie.arizona.edu/>.

Applications must be submitted online at <https://talent.arizona.edu/> (posting #: req7321; [direct link](#)). Candidates should include a curriculum vitae, statement of research and teaching interests, cover letter, and list of references.

At the University of Arizona, we value our inclusive climate because we know that diversity in experiences and perspectives is vital to advancing innovation, critical thinking, solving complex problems, and creating an inclusive academic community. We translate these values into action by seeking individuals who have experience and expertise working with diverse students, colleagues and constituencies. Because we seek a workforce with diverse perspectives and experiences, we encourage minorities, women, veterans, and individuals with disabilities to apply. As an Employer of National Service, we also welcome alumni of AmeriCorps, Peace Corps, and other national service programs.

Applications will be reviewed starting Nov. 15, 2021, and will be accepted until the open position is filled.

Questions should be directed to Professor Alejandro Salado, Chair of the Search Committee ([alejandrosalado@arizona.edu](mailto:alejandrosalado@arizona.edu)) and Professor Sharon O'Neal, Director of Software Engineering ([sharononeal@arizona.edu](mailto:sharononeal@arizona.edu)) at the University of Arizona.