



Arizona State University
Ira A. Fulton Schools of Engineering
School of Computing and Augmented Intelligence
Professor (all ranks) in Operations Research for Social Good
Location: Arizona State University – Tempe Campus

The [Ira A. Fulton Schools of Engineering](#) at [Arizona State University](#) (ASU) and the School of Computing and Augmented Intelligence (SCAI) seek applicants for a tenure-track or tenured faculty position in the area of “Operations Research for Social Good.” SCAI, one of the eight Fulton Schools, houses a vibrant Industrial Engineering and Computer Science research community. Our Industrial Engineering graduate program ranks 19th among all U.S. engineering schools (USN&WR). Learn more at <https://engineering.asu.edu/rankings/>. We seek applicants who complement our abilities in these areas to solve grand challenges as part of a community of experts. Particular areas of interest include, but are not limited to, scientists and engineers with research into optimization methods, applied probability and statistics, and stochastic modeling to support policy and decision making in socially critical contexts. Desired applicants work on the design and application of operations research methodology to assist various important societal problems including, but not limited to, healthcare, government, addiction, criminal justice, drug discovery, social media analysis, equitable allocation of public resources, environmental sustainability, energy reliability. Across these applications, fairness, explainability, transparency, and reliability are key challenges to keep into consideration. Theoretical areas of interest include, but are not limited to, optimization, stochastic modeling, applied probability, game theory, and sequential decision making.

SCAI currently houses several ASU Centers - including the Center for Assured and Scalable Engineering (CASCADE, <https://cascade.asu.edu/>), the Center for Accelerating Operational Efficiency (CAOE, <https://caoe.asu.edu/>), the Center for Biocomputing, Security and Society (CBSS, <https://biodesign.asu.edu/biocomputing-security-and-society>), the Center for Embedded Systems (CES, <https://ces.asu.edu>), the Center for Secure, Trusted, and Assured Microelectronics (STAM, <https://stamcenter.asu.edu>), the Center for Cybersecurity and Trusted Foundations (CTF, <https://globalsecurity.asu.edu/cybersecurity-and-trusted-foundations>), and the ASU-Mayo Center for Innovative Imaging (AMCII, <https://amcii.asu.edu>) - and have a large number of faculty working on a variety of relevant topics.

We seek applicants who will contribute to our academic programs, promote transdisciplinary teaching and research, and help the university to achieve its aspirations, including enabling student success, transforming society, valuing entrepreneurship and conducting use-inspired research. Faculty members in the Fulton Schools of Engineering are expected to develop an internationally recognized and externally funded research program, adopt effective pedagogical practices in the development and delivery of graduate and undergraduate courses, advise both undergraduate and graduate student research and projects, and undertake service activities.

This search is part of ASU’s engagement with the [Arizona’s New Economy Initiative \(NEI\)](#), a bold effort to ensure that Arizona leads the new economy that will rely on engineering, computing and technology to drive sustainable growth, resilience and opportunities for all. NEI investments in the Fulton Schools of Engineering will grow our world class faculty to accelerate research outcomes and to broaden student access to our programs; support Science and Technology Centers to foster the growth of new economy Industries; and expand experiential learning and workforce training opportunities.

Appointment will be at the Assistant, Associate, or Full Professor rank commensurate with the candidate’s experience and accomplishments, beginning August 2024. Although the tenure home may be in any of the Fulton Schools, the School of Computing and Augmented Intelligence is currently the most involved in the interest of this research.

Qualifications

Required qualifications:

- Earned doctorate in industrial engineering, operations research, computer science, computer engineering or related discipline by the time of appointment
- Evidence of excellence in research, as appropriate to the candidate's rank
- Evidence of excellence in teaching, as appropriate to the candidate's rank

Desired qualifications:

- Demonstrated commitment to a collaborative, transdisciplinary approach to research and teaching
- Potential (for junior applicants) or evidence (for senior applicants) for establishing an externally funded research program
- Record of publications in top-tier journals/conferences as appropriate to the candidate's rank
- Commitment to teaching at both the graduate and the undergraduate levels, including online courses

Application Instructions

Application deadline is **November 15, 2023**. Applications will continue to be accepted on a rolling basis for a reserve pool. Applications in the reserve pool may then be reviewed in the order in which they were received until the position is filled. To apply, visit <https://hiring.engineering.asu.edu/> and select "apply now" next to the corresponding position. Candidates will be asked to create or use an existing Interfolio Dossier to submit the following:

- Cover letter
- Curriculum Vitae
- Statement describing research interests (two pages maximum)
- Statement describing teaching interests and philosophy (two pages maximum)
- Contact information for three references

The ASU Charter states, "*ASU is a comprehensive public research university, measured not by whom it excludes, but by whom it includes and how they succeed; advancing research and discovery of public value; and assuming fundamental responsibility for the economic, social, cultural and overall health of the communities it serves.*" The Fulton Schools of Engineering are dedicated to cultivating excellence, delivering innovation that matters, encouraging bold thinking, fostering a community of learning and collaboration and building a foundation for all to be successful. Applicants are encouraged to address how their past, current and future activities align with the ASU Charter and Fulton Schools of Engineering values in their application materials.

For additional information regarding position specifics, please contact the search committee chair, Professor Giulia Pedrielli via email at giulia.pedrielli@asu.edu.

Equal Employment Opportunity Statement

A background check is required for employment. Arizona State University is a VEVRAA Federal Contractor and an Equal Opportunity/Affirmative Action Employer. All qualified applicants will be considered without regard to race, color, sex, religion, national origin, disability, protected veteran status, or any other basis protected by law.

See <https://www.asu.edu/aad/manuals/acd/acd401.html> and <https://www.asu.edu/titleIX/>.

In compliance with federal law, ASU prepares an annual report on campus security and fire safety programs and resources. ASU's Annual Security and Fire Safety Report is available online at <https://www.asu.edu/police/PDFs/ASU-Clery-Report.pdf>. You may request a hard copy of the report by contacting the ASU Police Department at 480-965-3456.