Tenured/Tenure-Eligible FACULTY POSITIONS

Department of Systems and Industrial Engineering
The University of Arizona

The Department of Systems and Industrial Engineering at the University of Arizona is seeking applications for three faculty positions. Candidates at all levels (Full, Associate, and Assistant) will be considered.

The University of Arizona is strategically focused on research in

- Biological and biomedical systems, with special emphases in translational and clinical health sciences, bioinformatics, and biotechnologies;
- Environment and sustainability, with special emphases in water, climate, energy, arid lands, policy, and sustainable design;
- Space sciences and related technologies, with special emphases on leveraging our strengths in the physical sciences to expand cross-college collaborations;
- Technology and society, with special emphases on information and data science ("big data"), information management, transport, and security, as well as digital cultures and access, human interfaces and autonomous/robotic systems;
- Global impact, with special emphases on international, transnational and area studies as well as world literatures, languages, histories and arts;
- Regional roots, with special emphases on Southwestern cultures and borderlands, as well as professional education, workforce development and community engagement.

The Department of Systems and Industrial Engineering envisions a significant role in the application of operations research, systems engineering, industrial engineering, and engineering management methodologies to healthcare and energy systems as well as existing departmental programs in manufacturing, quality and reliability, space systems, and infrastructure systems. Three strategic positions have been created to attract high quality research leaders. These positions include:

Healthcare Systems Engineering – Operations and Healthcare Processes
It is envisioned that a faculty member in this area will focus on the application of Industrial Engineering principles and methodologies to the operation of the healthcare system, including healthcare delivery spanning from emergency services to hospital operations and general wellness systems. The successful faculty candidate will teach industrial engineering courses at the graduate and undergraduate levels to build a strong and capable student population that is well prepared to support the future healthcare system.

Healthcare Systems Engineering – Data Mining (BIGDATA)
It is envisioned that a faculty member in this area will focus on translational and clinical health sciences and bioinformatics research in cooperation with faculty and researchers in the College of Medicine, Department of Electrical and Computer Engineering, Computer Science, and the School of Information, Science, Technology and the Arts. The successful faculty candidate will work to integrate modern information processing methodologies into our engineering curricula at both the graduate and undergraduate levels.
Energy Systems Engineering – Energy Management and Storage

It is envisioned that a faculty member in this area will focus on research in energy management and the role of energy storage in large-scale energy systems, including Smart Grid systems, in cooperation with faculty from Mechanical Engineering, Material Science and Engineering, Physics, and others programs that are focused on research and development of the next generation of energy systems. The successful candidate will contribute to the engineering curricula in a variety of areas including operations research, optimization, modeling and simulation, and system dynamics.

The department is seeking individuals with a scholarly record who are active in research and interested in teaching both graduate and undergraduate courses in:

- Operations Research and Optimization (Stochastic Processes, Linear Programming, Nonlinear Programming, Integer Programming, Stochastic Programming, and Data Mining)
- Engineering Management (Financial Modeling, Project Management, Technical Sales and Marketing)

Candidates should have a Ph.D. or equivalent in Operations Research, Industrial Engineering, Systems Engineering or a related field. It is desired that candidates have some teaching experience, including excellent oral and written communication skills. Candidates at the Associate or Full Professor rank must have a demonstrated record of research, teaching and service.

The 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. The Department has approximately 300 students, 9 faculty members, and research awards of over one million dollars per year.

The University of Arizona, a Research I institution, ranks 18th among public institutions in annual research expenditures, while the Systems and Industrial Engineering Department was listed having among the top thirty IE/Manufacturing programs by the US News and World Report. The Department has strong programs in the fundamentals of systems engineering, engineering management, operations research and industrial engineering, including decision systems, optimization, stochastic systems, applied statistics, dynamic systems, simulation, quality, reliability and systems design, and is involved in several interdisciplinary programs. The Engineering Management program has recently been expanded to include a Masters of Science degree. Additional details can be found on the department web page: http://sie.engr.arizona.edu.

Interested applicants should submit an on-line application, letter of interest and curriculum vitae to www.uacareertrack.com (citing job # 49628). Review begins on June 1, 2012 and continues until filled. The University of Arizona is an EEO/AA-M/W/D/V Employer.

Questions should be directed to:

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