Tenure Track Faculty Positions in Systems and Enterprises

The School of Systems and Enterprises (SSE) at Stevens Institute of Technology invites applications for three full-time tenure track faculty positions starting August 2018 or on a mutually agreed upon date. Applications will be considered at the ranks of Assistant or Associate Professor. Successful candidates will contribute to a growing research and educational program at the intersection of engineering, management, and systems science.

SSE is dedicated to designing sustainable solutions for some of the most complex socio-technical challenges of the 21st Century. Candidates must have a strong research record, including publications in highly-ranked peer-reviewed journals and conferences. Specific topic areas of interest include:

- **Humans and Design**: Conduct rigorous experimental research in technological environments to study human factors associated with the design and operation of systems and software throughout the lifecycle including human systems integration, cognition, perception, communication, and teamwork. This topic values experience in designing, implementing, and executing interactive simulations and games as behavioral experiments to generate and test hypotheses or facilitate design synthesis activities.

- **Behavioral System Analytics**: Gather, process, and analyze large data sets to understand and infer behavior for real-world systems. This topic values strong computational skills to develop predictive analytics for engineering process decision-making or explanatory hypotheses grounded in behavioral economics or other social sciences to inform design and operation of complex systems.

- **Model-centric Design**: Understand, develop, and implement digital design processes for systems and software engineering projects based on automated methods or tools leveraging computational resources to surpass fundamental human limitations on memory, processing, or communication. This topic values experience in systems modeling and simulation including topics such as model interoperability, knowledge representation, and design search strategies.

**Job Duties**

Faculty duties include teaching at the undergraduate and graduate levels, advising and mentoring graduate students, conducting externally-funded research, as well as contributing to service to Stevens and to the professional community. Strong communication skills are required. Candidates will be expected to become leaders in their field of research, to develop a vibrant externally-funded research program, and to contribute to best-in-class educational programs within SSE that cater to the needs of industry and government.
Basic Qualifications
Applicants must hold a doctoral degree in a systems-oriented engineering or science discipline before the start of employment.

Applicants should submit a curriculum vita, research statement, teaching statement, copies of one to three publications, and contact information for three references via the online submission system. We will only contact your references if you are short-listed for the position and will seek your permission before doing so. For full consideration, please enter this information electronically through the submission system by the indicated dates.

Please apply to one of the following postings for joint consideration among all positions:
- Humans and Design: [bit.ly/2xEfFik](bit.ly/2xEfFik)
- Behavioral System Analytics: [bit.ly/2xD0OEV](bit.ly/2xD0OEV)
- Model-centric Design: [bit.ly/2g8TENl](bit.ly/2g8TENl)

For inquiries, please contact the faculty search committee at [sse-search@lists.stevens.edu](mailto:sse-search@lists.stevens.edu).

About the School
The School of Systems and Enterprises (SSE) at Stevens Institute of Technology is a leading institution in systems innovation and research located in Hoboken, New Jersey, a vibrant city with population 54,000 on the Hudson River directly across from New York City. Ranked number 32 for graduate programs in Industrial/Manufacturing/Systems Engineering by the US News and World Report in 2017, faculty in SSE embrace diverse careers with both academic and industry experience. SSE offers undergraduate bachelor's degree programs in Engineering Management, Software Engineering, and Industrial and Systems Engineering, graduate master's degree programs including Engineering Management, Software Engineering, Systems Analytics, and Systems Engineering, and Ph.D. programs in Engineering Management and Systems Engineering.

Stevens Institute of Technology is an Equal Opportunity Employer. The School of Systems and Enterprises at Stevens values diversity and seek candidates who can contribute to a welcoming climate for students of all races and genders. Stevens is an NSF ADVANCE institution committed to equitable practices and policies. We strongly encourage qualified women and minority candidates to apply.