Faculty Positions Announcement

The Division of Integrative Systems and Design, University of Michigan, Ann Arbor, seeks candidates for two joint appointments with any of the College of Engineering departments of full-time tenured or tenure-track faculty. These positions are open to candidates of all ranks (Assistant Professor/Associate Professor/Professor), including junior and senior-level appointments. The rank of the selected candidate will depend upon candidate’s qualifications. The tenure or tenure-track home will be in an academic department in the College of Engineering with a 50% joint appointment in the Division of Integrative Systems and Design for instructional and service activities.

The Integrative and Design division (ISD) in the College of Engineering is the home of graduate level programs with an emphasis on the design and production of innovative products and systems. ISD currently enrolls over 400 students in the graduate level degree programs, plus 800-900 students enrolled in noncredit professional programs. Our students take courses in Ann Arbor, online, and at off-campus locations. Website: http://isd.engin.umich.edu/

Candidates who have strong backgrounds and interests in the broad domain of systems engineering as it applies to the creation of solutions to complex, real world problems are strongly encouraged to apply. This includes design, control, and optimization as applied at levels ranging from platform-based systems to enterprise systems; as well as the design of large-scale complex engineered systems, such as: the relation of the structure of an engineering organization to design outcomes; uncertainty quantification and management from initial engineering design predictions through the operation and maintenance of large scale systems; the manner in which individual design decisions are aggregated to bring about whole systems; path dependence of design decision-making; the way relevant knowledge and information, mediated by individual engineers organized into large teams, impact systems engineering outcomes. These connect systems engineering with design, dynamics, software, controls, optimization, and other systems-related fields.

All areas of systems engineering are of interest, including but not limited to thematic areas such as:

1. **Infrastructure Systems** which focus on the analysis, design and operation of complex engineered infrastructure systems from the systems engineering perspective which includes system architecting, specification development and management, system verification & validation, and delivery; example disciplines include: Civil, Energy, Healthcare, Mechanical, Transportation;

2. **Software-Enabled System Design** which focuses on design with embedded complex software from the systems engineering perspective including architecting, specification development and management, system verification & validation, and delivery; and where design is fundamentally enabled by software in disciplines such as: Aerospace, Automotive, Mechanical, Naval, etc.;

3. **Software Systems Engineering** which focuses on the analysis, design and operation of large software systems, including architecting, specification development and management, system...
verification & validation, and delivery to real world problems in engineering disciplines such as: Aerospace, Automotive, Civil, Mechanical, Naval, etc.

Applicants should have an earned Ph.D in engineering. We seek candidates who will provide inspiration and leadership in research and will contribute proactively to teaching and to the diversity of the academic community. While the position will remain open until it is filled, candidates are encouraged to apply before **December 1, 2014** as applications will be reviewed immediately upon receipt.

All applicants should submit in PDF format (1) a detailed curriculum vitae, (2) a statement of research interests, (3) a statement of teaching interests, (4) up to three representative publications, and (5) the names and contact information of at least four referees. Applications must be submitted electronically at [https://me-web2.engin.umich.edu/fsv2/candidate/index?search_id=9](https://me-web2.engin.umich.edu/fsv2/candidate/index?search_id=9).

The College of Engineering is especially interested in qualified candidates who can contribute, through their research, teaching, and/or service, to the diversity and excellence of the academic community. Underrepresented minorities and women are strongly urged to apply. The University of Michigan is a non-discriminatory/affirmative action employer and is responsive to the needs of dual career families.