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AIAA Systems Engineering Papers

Systems engineering (SE) papers supporting aircraft design and operations are requested. Papers that summarize SE case studies, developmental work and technical analysis are especially desired, but others will be considered. Major topics of interest include but are not limited to systems engineering applications, integrated disciplines and technology, future trends and predictions in systems engineering, systems engineering education and research, systems engineering life cycle processes, and systems effectiveness. Examples of these subject topics are: 1. Application of Complexity and Change – How does systems complexity affect the practice of SE in different application areas? How do organizations apply SE in their change programs? What is complexity in SE? 2. Future Trends and Predictions – Can experience from today enable needs for the future of SE impact in program change and technology? Do we see new areas of applied SE emerging? 3. SE for systems of systems (SoS) - How will the System-of-Systems Engineering process be developed? Do SE approaches change when applied to SoS vs. a single system? 4. Integrated Disciplines and Technology – How is information technology/knowledge management linked to SE? Is integration a task for the production personnel, Systems Engineers and others? How has project management and SE interaction been achieved and is it really effective? 5. SE Education and Research – Has teaching SE in organizations and universities been successful when measured both absolutely and relative to other disciplines? Is balancing cost, technical performance, schedule, and risk specifically taught and if so at what level of detail (e.g., single lecture or entire course)? What are the ongoing research programs within SE, and what have we learned from the past years? Presentations of student research programs are encouraged, including findings and challenges. 6. SE Life Cycle Processes and Systems Effectiveness - How is Integrated Logistics Support/Acquisition Logistics integrated with SE? How have the new life cycle and SE standards proved useful?

Special Edition – The Journal of Aircraft will issue a special section for system engineering papers. Please send your abstracts and papers to Dr. John C Hsu (john.c.hsu@boeing.com) or Dr. Satoshi Nagano (Satoshi.Nagano@aero.org).

Submission Due Dates:

Abstract: September 30, 2009
Manuscript: February 28, 2010

University of Cincinnati

ENDOWED FACULTY POSITIONS IN AEROSPACE ENGINEERING UNIVERSITY OF CINCINNATI

THE DEPARTMENT OF AEROSPACE ENGINEERING AT THE UNIVERSITY OF CINCINNATI invites applicants for endowed faculty positions in aerospace. The recent large awards of \$27.5 million to the department from the Ohio Department of Development (ODOD) in power and propulsion, and \$20 million endowment from a private donor to the University of Cincinnati for space exploration support four faculty positions. As a part of these awards the Department has three open positions in the areas of intelligent control and thermal management in advanced propulsion, advanced energy sources for low emissions, and dynamic integration of energy optimized aerospace systems. A fourth Alan Shepard chair is in the area of space design and exploration. These positions are expected to be filled at the Full/Associate Professor level. Multidisciplinary design, systems engineering and industrial and/or government research and development experience are desirable. Successful candidates are expected to pursue strong funded research programs, participate in meeting the overall educational objectives of the university, and to provide leadership in building teams. In addition, the department is also seeking to fill tenure track faculty positions in space systems design, and aircraft and spacecraft structural dynamics at the Assistant Professor level. Qualified candidates should have a Ph.D. in Aerospace Engineering or in a related field with a solid record of publications and funded research.

The department offers fully ABET- accredited five year B.S. degree in aerospace engineering with a mandatory coop program and M.S. and Ph.D. degrees in both Aerospace engineering and Engineering Mechanics. In addition the department has an Accelerated Engineering Degree (ACCEND) program where highly motivated students can get both B.S. and M.S. or B.S. and M.B.A. in five years and a quarter.

The goal of the College of Engineering and the department is to provide high quality education and scholarship. Local connections are strong with General Electric Aerospace, Air Force Research Laboratory at Wright Patterson Air Force Base, NASA Glen Research Center, and Ohio aerospace industry.

Interested applicants are requested to submit complete curriculum vitae with names and addresses of three references and detailed statement on research plans and teaching interests. To apply for position (29UC3888), please see www.jobsatuc.com. Departmental information is also listed below.

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The University of Cincinnati is a comprehensive research university with a diverse student population of more than 33,000. The city of Cincinnati offers a culturally rich cosmopolitan environment with easy access to theater, museums, restaurants and professional sport events, with headquarters of several fortune 500 companies.

The University of Cincinnati is an affirmative action/equal opportunity employer.
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Department of Mechanical Engineering Stanford University Faculty Opening

The Department of Mechanical Engineering at Stanford University (<http://me.stanford.edu/>) invites applications for a tenure-track assistant and/or untenured associate professor faculty position opening. We give high priority to the overall originality and promise of the candidate's work rather than the candidate's area of specialization within mechanical engineering.

We seek applicants relevant to any area of mechanical engineering including, but not limited to, controls, energy systems and sciences, biomechanics and biological transport, propulsion systems and sciences, and nanotechnology. An earned Ph.D., evidence of the ability to pursue a program of research, and a strong commitment to graduate and undergraduate teaching are required. The successful candidate will be expected to teach courses at the graduate and undergraduate levels and to build and lead a team of graduate students in Ph.D. research.

Applications should include a curriculum vitae with a list of publications, a one-page statement each of research vision and teaching interests, and the names and addresses of five references. Please submit your application online at:

http://me.stanford.edu/research/open_positions.html

The review of applications will begin on September 21, 2009. However, applications will be accepted until the position is filled.

Stanford University is an equal opportunity employer and is committed to increasing the diversity of its faculty. It welcomes nominations of and applications from women and members of minority groups, as well as others who would bring additional dimensions to the university's research and teaching missions.