

UNIVERSITY OF CALIFORNIA, DAVIS
DEPARTMENT OF MECHANICAL AND AERONAUTICAL ENGINEERING
FACULTY POSITION

The Department of Mechanical and Aeronautical Engineering at the University of California, Davis, invites applications for a faculty position, in the context of the UC Davis Energy for the Future campus initiative, at the Assistant, Associate, or

Full Professor level, in the general area of **EFFICIENT ENERGY SYSTEMS**. Areas of interest within this theme include, but are not limited to, advanced hybrid vehicles (including plug-in hybrids); combustion research; alternative fuels, including research in hydrogen production and biofuels; renewable energy sources, such as solar and wind power; air pollution studies; fuel cell technology; design/optimization of energy systems; and control of energy networks. The ability to generate power in a distributed manner from various renewable sources, as part of a sustainable, durable, and reliable energy production and distribution strategy, is also of interest. Renewable sources might include wind turbines, onshore and offshore systems, micro-hydroelectric turbines, solar (PV and thermal), fuel cells, geothermal, or plug-in mobile hybrids.

The position involves conducting research and teaching undergraduate and graduate courses in these areas, and advising graduate students in Mechanical and Aeronautical Engineering. The candidate should have an earned PhD in engineering or a related field. Applicants should submit a detailed resume, with names of three references, to <http://energy.ucdavis.edu>. Applications should be received on or before **February 15, 2008** for full consideration, but the position

will remain open until filled. Further information may be found on the Department web site, <http://energy.ucdavis.edu>.

The University of California, Davis is an affirmative action/equal opportunity employer with a strong institutional commitment to diversity among its faculty, staff, and students.

UNIVERSITY OF COLORADO AT BOULDER
AEROSPACE ENGINEERING SCIENCES

The Department of Aerospace Engineering Sciences at the University of Colorado in Boulder invites applications for a Senior Instructor position.

Candidates are sought who have extensive experience (government or industry) in space systems and enthusiasm for teaching, teamwork and mentoring students. The successful applicant will be responsible for the following types of activities:

- Coordinating and teaching a graduate projects curriculum as part of the department's new Space Systems Science & Engineering (S3E) initiative
- Developing hands-on experimental test beds
- Collaborating with faculty in aerospace and other departments on these projects
- Establishing ties with industry and government labs

For more information please visit www.colorado.edu/aerospace

Applicants should submit their application electronically to job posting #803100 on www.jobsatcu.com, including a CV or resume, statement of teaching interest, and the names of four references. Address cover letter to Prof. David Klaus, Search Committee Chair, Department of Aerospace Engineering Sciences, University of Colorado. Applications will be reviewed beginning February 15, 2008 and continue until the position is filled. Please note that an offer is contingent upon the satisfactory completion of a criminal and financial background check as required by the University.

The University of Colorado is committed to diversity and equality in education and employment.

SYSTEM OF SYSTEMS SIGNATURE AREA
THE COLLEGE OF ENGINEERING AT PURDUE

Faculty Position in College of Engineering

University invites applications and nominations for a faculty position at the assistant, associate, or full professor level, with a likely appointment in the School of Aeronautics and Astronautics (AAE).

Signature Areas are multidisciplinary initiatives that cut across established boundaries of Purdue's engineering and related disciplines, address national priorities and present exciting opportunities for field-defining research, educational innovation, and intellectual property spin-offs (<https://engineering.purdue.edu/Engr/Cluster/>). The System of Systems Signature Area (<https://engineering.purdue.edu/Engr/Research/Initiatives/SoS/>) supports academic cooperation among the schools of engineering.

The School of Aeronautics and Astronautics (<https://engineering.purdue.edu/AAE>) actively participates in the System of Systems signature area and has capitalized on recent faculty growth to develop the disciplinary area of Aerospace Systems as a complement to the areas of Aerodynamics, Astrodynamics & Space Applications, Dynamics & Control, Propulsion, and Structures and Materials within the School. In September 2007, the School moved into the new Neil Armstrong Hall of Engineering, which provides outstanding facilities for learning and discovery.

The System of Systems Signature Area seeks candidates with interest and demonstrated capability in addressing topics associated with large-scale, complex engineered systems; these topics include, but are not limited to: optimization, dynamics & control, decision making under uncertainty & non-deterministic assessment, game theory & competitive behavior, and modeling & simulation. Candidates for the System of Systems Signature. Strengths with specific interest in developing, exercising and validating new approaches for the design and operation of aerospace systems are especially encouraged to apply.

Applications will be reviewed immediately upon receipt, and the search will continue until the position is filled. Candidates should have a distinguished academic record, exceptional potential for world-class research, and a commitment to both undergraduate and graduate education. Letters of interest, resume, statements of teaching and research philosophies, and names, addresses and phone numbers of at least three references should be submitted electronically to <https://engineering.purdue.edu/Engr/AboutUs/Employment/Applications>.

Purdue University is an Equal Opportunity/Equal Access/Affirmative Action employer.



THE UNIVERSITY OF ALABAMA IN HUNTSVILLE
THE MECHANICAL AND AEROSPACE ENGINEERING DEPARTMENT
Three New Tenure-Track Faculty Positions

The Mechanical and Aerospace Engineering Department at the University of Alabama in Huntsville is entering a **Dynamic Growth Phase** spurred by steady growth in enrollment and rapid expansion of programs in local high-tech companies and government agencies (NASA Marshall and Redstone Arsenal). To meet the demand of research opportunities and for well-educated mechanical and aerospace engineers, the department is expanding its full-time faculty lines. Applications are invited for **three** tenure-track faculty positions at the assistant professor level (higher ranks will be considered for experienced candidates). A successful candidate will have proven expertise in one of the following areas:

- Computational Fluid Dynamics or Computational Solid/Structural Mechanics: application of advanced numerical techniques to solve engineering problems, development of robust numerical schemes for solution of multidisciplinary problems, data mining, efficient CFD-Computer Science platforms (Position Number: 08/09-282-1).
- Advanced Sensors, Measurements, and System Monitoring and Control: advanced sensors, instrumentation systems, and measurements in difficult/unique environments; use in monitoring and control of complex systems; simulations and their validation in such system monitoring and control applications (Position Number: 08/09-282-2).
- Autonomous Vehicles and/or Propulsion: all aspects of autonomous aerial, ground, sea, undersea and/or space vehicles considering the entire spectrum of potential applications. In the propulsion area, emphasis is on solid rocket or rotorcraft propulsion with strong knowledge of propulsion physics and applications (Position Number: 08/09-282-3).

The successful candidates are expected to have a strong commitment to teaching excellence at undergraduate and graduate levels and demonstrated research capabilities that will enable the candidate to develop externally funded research programs within a collaborative, supportive, multi-disciplinary departmental environment. Applicants must have an earned doctorate in Aerospace or Mechanical Engineering or a closely related field from an ABET accredited institution. Previous teaching experience is desirable.

UAHuntsville is located in one of the nation's leading centers for aviation and space research. UAHuntsville is adjacent to the U. S. Army Redstone Arsenal and NASA's Marshall Space Flight Center, which provide our faculty and students with outstanding opportunities for collaboration with these organizations. Several UAH research centers collaborate closely with the Department, including the Propulsion Research Center, Center for Space Plasma and Aeronomic Research, Center for Applied Optics, Nano and Micro Devices Center, Center for Modeling Simulation & Analysis, and the Center for Rotorcraft Systems Engineering and Simulation. The Department has 500 undergraduate students and 130 graduate students and offers Bachelors, Masters, and Doctoral programs in Mechanical and Aerospace Engineering.

The positions are available starting in the summer of 2008. Consideration of applicants will begin immediately, and the search will remain open until all positions are filled. Applicants should send a cover letter which indicates the position number (08/09-282-1, 08/09-282-2, 08/09-282-3), a current curriculum vitae, contact information for at least three references, and separate one-page statements of research plans and teaching interests to: MAE Search Committee, Department of Mechanical & Aerospace Engineering, The University of Alabama in Huntsville, Huntsville, AL 35899. Electronic submissions will not be considered. The Department is committed to diversity and fostering a welcoming climate for all.

UAH is an Affirmative Action/Equal Opportunity Employer.

UNIVERSITY OF TORONTO INSTITUTE
FOR AEROSPACE STUDIES

Faculty Position in Aerospace Engineering

The University of Toronto Institute for Aerospace Studies (UTIAS) is seeking applications for a tenure-track position at the level of Assistant Professor in aerospace engineering. The appointment will begin on or after July 1, 2008.

We seek applicants whose primary area of research is related to solid mechanics, including, but not limited to, the design and optimization of materials and structures for aerospace applications. Applicants must have a doctoral degree, typically from an aerospace or mechanical engineering department, and a strong commitment to both teaching and research. The successful candidate is expected to establish and lead a dynamic research program, supervise graduate students, and teach undergraduate and postgraduate courses. The selection will be based primarily on the applicant's potential for excellence in research and teaching. Salary is commensurate with qualifications and experience. For information about UTIAS, please see our web site, www.utias.utoronto.ca.

Applications should include: (i) a detailed curriculum vitae, (ii) a concise statement (3 pages maximum) of teaching and research interests, objectives and accomplishments, and (iii) examples of publications and material relevant to teaching experience. Applicants are also asked to provide the names and contact information (mailing address, telephone, fax, and email) of five referees who are able to comment on the applicant's experience and ability in teaching and research. Applications should be sent to Professor D.W. Zingg, Director, University of Toronto Institute for Aerospace Studies, 4925 Dufferin Street, Toronto, Ontario, Canada M3H 5T6 by March 31, 2008. Electronic submission is encouraged to Joan DaCosta, Administrative Assistant to the Director, dacosta@utias.utoronto.ca.

The University of Toronto is located in Toronto, a large multicultural city offering many cultural, professional, and research opportunities. The student body at the University reflects the diversity of the city. The breadth of the University provides numerous opportunities for interdisciplinary collaborative research.

The University of Toronto is strongly committed to diversity within its community. The University especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to further diversification of ideas. The University is also responsive to the needs of dual career couples.

All qualified applicants are encouraged to apply; however, Canadians and permanent residents will be given priority.