

The Department of Mechanical Engineering at the University of Utah (<http://www.mech.utah.edu/>) invites applications for tenure track positions at the assistant or associate rank with a Fall Semester 2012 starting date. Candidates with exceptional background and experience may be considered at a higher rank. Candidates with interest and expertise in the areas of computational fluid mechanics, computational solid mechanics, renewable energy systems, biomechanical design/manufacturing, or robotics are strongly encouraged to apply. Desired specific research expertise includes:

- **computational fluid mechanics:** large-scale computation methods applied to complex multiphysics problems in fluid mechanics and/or thermal sciences, such as environmental/geophysical fluid dynamics and fundamental micro-scale fluid mechanics
- **computational solid mechanics:** hierarchical multiscale constitutive modeling of biological, geological and/or engineered composite media, parallel particle-based continuum solvers, fluid-structure interaction, and/or computational statistics/uncertainty quantification in mechanics;
- **renewable energy systems:** basic and/or applied research in renewable energy systems with interests in multidisciplinary problems that will integrate synergistically with our existing sustainability related expertise in the thermal sciences and environmental fluid dynamics;
- **biomechanical design/manufacturing:** biomechanical/biomedical design, ergonomics, rehabilitation engineering, and systems design;
- **robotics:** micro/meso-scale robotics (manipulation, mobility, or design and fabrication) or mobile manipulation (assistive robots in healthcare, elderly care, industrial, and military applications as well as humanoid robots, medical robots, and possibly unmanned air vehicles).

Candidates should be qualified to teach courses aligned with their area of expertise as well as other core Mechanical Engineering courses at the undergraduate and graduate level. Candidates are expected to develop and maintain an active, externally-funded research program. Rank and salary will be commensurate with qualifications and experience. Applicants are expected to have an earned Ph.D. or Sc.D. in Mechanical Engineering or a closely related field. The department currently has 27 faculty members, over 700 undergraduate and 220 graduate students. Review of applications will begin on December 1, 2011 and continue until the position is filled. Applications should include a cover letter highlighting the applicant's qualifications, current curriculum vitae, statements of research and teaching interests and teaching philosophy, and contact information for a minimum of three references. All documents must be uploaded at <http://utah.peopleadmin.com/postings/10590> (computational fluid mechanics) or <http://utah.peopleadmin.com/postings/10588> (all other areas).

The University of Utah is fully committed to affirmative action and to its policies of nondiscrimination and equal opportunity in all programs, activities, and employment. Employment decisions are made without regard to race, color, national origin, sex, age, status as a person with a disability, religion, sexual orientation, gender identity or expression, and status as a protected veteran. The University seeks to provide equal access for people with disabilities. Reasonable prior notice is needed to arrange accommodations. Evidence of practices not consistent with these policies should be reported to: Director, Office of Equal Opportunity and Affirmative Action. The University of Utah values candidates who have experience working in settings with students from diverse backgrounds, and possess a strong commitment to improving access to higher education for historically underrepresented students.