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Assistant/Associate/Professor in Computational Solid Mechanics
University of Utah

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Posted Oct. 1, 2024, set to expire Jan. 31, 2025

Job Title	Assistant/Associate/Professor in Computational Solid Mechanics
Department	Mechanical Engineering https://mech.utah.edu/
Institution	University of Utah Salt Lake City, Utah
Date Posted	Oct. 1, 2024
Application Deadline	Jan. 15, 2025
Position Start Date	Jul. 1, 2025
Job Categories	Assistant Professor Associate Professor Professor
Academic Field(s)	Mechanical Engineering Engineering Mechanics
Apply Online Here	https://utah.peopleadmin.com/postings/170625
Apply By Email	

Job Description

The Department of Mechanical Engineering at the University of Utah (https://mech.utah.edu/) invites applications for a tenure-track faculty position in the area of computational solid mechanics with an anticipated start date in Fall 2025. We are particularly interested in candidates who have a strong background in computational solid mechanics with a focus on areas such as multi-scale methods, uncertainty quantification, inverse problems, or modeling extreme environments through novel applications of high-performance computing using methods such as GPU acceleration or advanced numerical methods that leverage machine learning (ML) or artificial intelligence (AI). Exceptional

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candidates will be considered at the level of associate or full professor.

Strong preference will be given to candidates who demonstrate expertise within these (or related) areas. Specifically, candidates who develop new computational mechanics algorithms will be prioritized over those who rely solely on existing numerical tools, such as commercial software or conventional machine learning methods for surrogate modeling. The successful candidate will have the opportunity to collaborate with multidisciplinary teams across the university, leveraging the University of Utah's state-of-the-art high-performance computing resources, such as the Center for High-Performance Computing (CHPC). Collaboration opportunities also exist with the Scientific Computing and Imaging (SCI) Institute and other departments, fostering a rich environment for innovative research.

Candidates must have a demonstrated track record of high-quality research as evidenced by scholarly publications and must exhibit strong potential (junior faculty) or an established record (senior faculty) of securing extramural funding with highly regarded scholarly publications.

Candidates are expected to teach core undergraduate and graduate solid mechanics courses and develop new courses that support the mechanical engineering graduate program. Applicants are expected to have an earned Ph.D. or Sc.D. in Mechanical Engineering, or a closely related field.

The University of Utah, a member of the Association of American Universities, is a research-focused institution that is home to more than 35,000 students, world-class faculty and researchers, a medical campus, and many start-up companies. The Department of Mechanical Engineering has experienced tremendous growth over the past decade, fueled by the State of Utah's Engineering Initiative, and currently houses more than 40 tenure-line faculty members, over 1,000 undergraduate and 250 graduate students (140 Ph.D. students).

The University of Utah campus is situated in Salt Lake City (SLC), a growing, increasingly diverse, metropolitan city with a population of 1M nestled against the backdrop of the beautiful Wasatch Mountains. The greater SLC valley is an important economic hub of the Mountain West and is home to many large technology and Fortune 500 companies. SLC residents enjoy a highly accessible and walkable downtown with vibrant restaurants, sports, nightlife, and cultural events. SLC residents enjoy easy access to national parks (8 within a few hours' drive), world-class skiing/snowboarding (7 resorts within 1 hour), hiking, fishing, biking, and rafting/kayaking. In addition, faculty members enjoy free access to public transportation and the convenience of an international airport located only 15 minutes from campus.

All applications received by November 15th, 2024 will receive full consideration. Applications must be submitted electronically at https://utah.peopleadmin.com/postings/170625 and should include: (1) a

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cover letter highlighting the applicant's qualifications and relevance to this search, (2) current curriculum vitae, (3) research statement (2 pages), (4) teaching statement (2 pages), and (5) contact information of three to five academic references.

EEO/AA Policy

All qualified individuals are strongly encouraged to apply. Veterans' preference is extended to qualified applicants, upon request and consistent with University policy and Utah state law. Upon request, reasonable accommodations in the application process will be provided to individuals with disabilities.

The University of Utah is an Affirmative Action/Equal Opportunity employer and does not discriminate based upon race, ethnicity, color, religion, national origin, age, disability, sex, sexual orientation, gender, gender identity, gender expression, pregnancy, pregnancy-related conditions, genetic information, or protected veteran's status. The University does not discriminate on the basis of sex in the education program or activity that it operates, as required by Title IX and 34 CFR part 106. The requirement not to discriminate in education programs or activities extends to admission and employment. Inquiries about the application of Title IX and its regulations may be referred to the Title IX Coordinator, to the Department of Education, Office for Civil Rights, or both.

To request a reasonable accommodation for a disability or if you or someone you know has experienced discrimination or sexual misconduct including sexual harassment, you may contact the Director/Title IX Coordinator in the Office of Equal Opportunity and Affirmative Action:

Director/ Title IX Coordinator

Office of Equal Opportunity and Affirmative Action (OEO/AA)

More information, including the Director/Title IX Coordinator's office address, electronic mail address, and telephone number can be located at : https://www.utah.edu/nondiscrimination/Online reports may be submitted at oeo.utah.edu

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Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact Tiffany Benson
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