

Assistant Professor in Structural Engineering  
University of Utah

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Posted Oct. 10, 2024, set to expire Feb. 10, 2025

<b>Job Title</b>	Assistant Professor in Structural Engineering
<b>Department</b>	Civil & Environmental Engineering <a href="https://www.civil.utah.edu/">https://www.civil.utah.edu/</a>
<b>Institution</b>	University of Utah Salt Lake City, Utah
<b>Date Posted</b>	Oct. 10, 2024
<b>Application Deadline</b>	Dec. 2, 2024
<b>Position Start Date</b>	Aug. 1, 2025
<b>Job Categories</b>	Assistant Professor
<b>Academic Field(s)</b>	Structural Engineering Civil Engineering
<b>Apply Online Here</b>	<a href="https://utah.peopleadmin.com/postings/171755">https://utah.peopleadmin.com/postings/171755</a>

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**Job Description**

The Department of Civil and Environmental Engineering (CVEEN) at the University of Utah invites applications for a 9-month, tenure-track faculty position in the area of Structural Engineering with an anticipated start date of August 1st, 2025. This position is anticipated to be filled at the Assistant Professor level.

Position Description – The successful applicant will be required to develop an externally-funded research program, teach undergraduate and graduate courses in structural engineering, mentor undergraduate and graduate students, produce scholarly publications, collaborate with other faculty on professional development interests, and provide departmental, college, university, and national professional service. An earned Ph.D. degree in Civil Engineering or a closely related discipline before

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the date of hire is required. Strong communication skills and the ability to work collegially and collaboratively with diverse internal and external constituencies are also necessary. The candidate shall hold a PE license or be on the path of obtaining a PE license and be able to teach structural design courses. To address the transformative leaps in structural engineering technologies, innovative research and teaching approaches will require inspirational leaders with adaptive abilities in areas including (but not limited to):

- Utilization of advanced methodologies and platforms of artificial intelligence, machine learning, and digital twin for structural design, optimization, modeling, evaluation, and risk assessment, among other applications;
- Application of advanced computational methods and structural mechanics to improve the performance and reliability of structural systems;
- Modeling and assessment of structural behavior and performance under multi-hazards and extreme loads (seismic, wind, and fire) via probabilistic and uncertainty-informed frameworks to enhance structural resilience and develop effective retrofit strategies;
- Performance-based structural design and optimization based on novel structural designs at the material, component, and system levels, including additive manufacturing, multi-functional materials, metamaterials, metastructures, bio-inspired and bio-mimicking structures and materials for enhanced structural resilience and reduced carbon footprint;
- Assessment of the impact of natural hazards and changing climate on structural components, systems, and community; physics- and data-driven post-natural hazard assessment and reconnaissance;
- Experimental testing and assessment of structural and non-structural systems and components for civil infrastructure and renewable energy systems.

Candidates with strong core fundamentals that allow them to work across disciplinary boundaries are particularly encouraged to apply. We are seeking highly motivated team players who are looking to help advance our exciting undergraduate and graduate engineering programs.

Being part of the Big 12 Conference, the University of Utah is a Carnegie Research-Extensive University located in Salt Lake City at the foothills of the beautiful Wasatch Mountains. Founded in 1850, the University of Utah now enrolls over 32,000 undergraduate and graduate students. The area experiences the four seasons and is known for world-class outdoor recreational activities including skiing, hiking, and biking. The State of Utah has more national parks and scenic areas than any other state. Growth in transportation, energy, mining, software, semiconductors, finance, education, healthcare, and business job sectors have contributed to the State's prosperity, despite the difficult

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national economy.

The CVEEN department is one of seven rapidly growing departments within the John and Marcia Price College of Engineering. In the past decade, the number of tenure-track faculty positions has grown by 50% and research expenditures have more than tripled, to \$81.5 million per year, placing our College in the top 30 engineering universities in the country for research volume (2022). The CVEEN department currently has 21 tenure track faculty members and 4 lecturing faculty, plus we are actively searching for 5 positions including this vacancy. Our enrollment is 106 full-time graduate students, and 340 undergraduate students. The department has an active research program with over \$19 million in external funding in 2023. Additional information about the department is available at:

[www.civil.utah.edu](http://www.civil.utah.edu).

Application Process – Electronic application materials (pdf format) should include a cover letter, curriculum vitae, statement of research interests, statement of teaching interests, up to three (3) relevant publications, and contact information for three references. Applications will be accepted online at <https://utah.peopleadmin.com/postings/171755>. Initial screening of applicants will begin December 2, 2024 although applications will be accepted and reviewed until the position is closed.

### **EEO/AA Policy**

The University of Utah is an Equal Opportunity/Affirmative Action employer and educator. Minorities, women, and persons of disabilities are strongly encouraged to apply. Veteran's preference.

Reasonable accommodations provided. For additional information:

<http://www.regulations.utah.edu/humanResources/5-106.html>.

### **Contact Information**

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

**Contact** Peter Zhu  
Civil & Environmental Engineering  
University of Utah

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