

Assistant or Associate Professor in Structural Engineering
University of California, San Diego

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Posted Dec. 6, 2019, set to expire Apr. 8, 2020

Job Title	Assistant or Associate Professor in Structural Engineering
Department	Structural Engineering http://structures.ucsd.edu
Institution	University of California, San Diego San Diego, California
Date Posted	Dec. 6, 2019
Application Deadline	Open until filled.
Position Start Date	Jul. 1, 2020
Job Categories	Assistant Professor Associate Professor
Academic Field(s)	Structural Engineering
Job Website	https://apol-recruit.ucsd.edu/JPF02336

Apply By Email

Job Description

THE UNIVERSITY OF CALIFORNIA - SAN DIEGO, Department of Structural Engineering (<http://structures.ucsd.edu>), has opened a search for a faculty member at the Assistant Professor level or Associate Professor level with a focus in systems engineering, applied to the broad, holistic portfolio of aerospace, civil, mechanical, transportation, energy, geotechnical, and material systems applications described in the Department of Structural Engineering's vision and overview (<http://structures.ucsd.edu/about-us/mission-objectives-outcomes>) and complementary to the Department's active research profile (<http://structures.ucsd.edu/research/research-brochures>). In addition to the highest standards of scholarship, teaching, and professional activity, the successful candidate for this position will have potential or demonstrated contributions to a climate that supports equity, inclusion, and diversity.

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Successful realizations of structural systems require integration of and interaction among a multi-disciplinary spectrum of capabilities such as risk/uncertainty management, digital data- and/or physics-based modeling across multiple length, time, and physical domains, validation and verification of models, performance optimization over complex multi-objectives, and human factors/interaction, among other things. Computing, computational modeling advances, and physics-constrained data science/analytics, among other things, have initiated the digitization of our engineered world. This “digital twin” paradigm, for example, is transforming how we design, manufacture, deploy, maintain, and retire structural systems within it, all for optimal life cycle performance, resiliency, and impact on the planet. While all relevant application domains will be considered, some focus areas include: advanced manufacturing of structures including 3D printing, design for manufacturing with consideration of next generation materials, model-based systems engineering and verification and validation, lifecycle structural health monitoring and prognosis of structures including interactive workflows, deep learning, and visual analytics, and the use of problem-driven systems engineering and/or artificial intelligence for the integration of technological solutions in the design, integration, and operation of intelligent transportation, manufacturing, or built infrastructure systems for future smart and connected communities.

A candidate will have journal publications in top-ranked journals in the field of systems engineering as it applies to structural systems. A successful candidate will be required to teach undergraduate and graduate courses (with at least one applied towards a new “convergent systems” multi-disciplinary engineering curriculum), to develop an active, well-funded, internationally-recognized research program, and to form synergistic connections in the Department, School and University. **An earned doctoral degree or advancement to candidacy in civil engineering, structural engineering, mechanical engineering, or a closely-related field is required at the time of appointment.** For inquiries specific to the Department of Structural Engineering, contact the Chair of the Search Committee, Prof. Michael Todd, email: (mtdodd@eng.ucsd.edu).

The Department of Structural Engineering houses unparalleled large-scale testing facilities, including the NHERI@UCSD Large High-Performance Outdoor Shake Table, a blast simulation facility, a composite and aerospace structures laboratory, a geotechnical centrifuge, two 9-m deep soil pits for foundation testing, a rail defect testing facility, a high-bay structural systems laboratory, a structural components laboratory, a large Caltrans 6-DOF shake table for testing structural response modification devices (SRMD), and multiple non-destructive evaluation/structural health monitoring (NDE/SHM) laboratories.

The University of California is committed to creating and maintaining a community dedicated to the advancement, application, and transmission of knowledge and creative endeavors through academic excellence, where all individuals who participate in University programs and activities can work and

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learn together in a safe and secure environment, free of violence, harassment, discrimination, exploitation, or intimidation. With this commitment, UC San Diego requires all candidates for academic appointments with tenure or security of employment to complete, sign, and upload the form entitled "Authorization to Release" into RECRUIT as part of their application.

UC San Diego is an equal opportunity/affirmative action employer with a strong institutional commitment to excellence and diversity (<http://diversity.ucsd.edu>). The Department of Structural Engineering within the Jacobs School of Engineering is committed to building an academically excellent, diverse, and inclusive faculty, staff, and student body (<http://www.jacobsschool.ucsd.edu/diversity/>).

For applicants interested in spousal/partner employment, please visit the UCSD Partner Opportunities Program website at: (<http://academicaffairs.ucsd.edu/aps/partneropp/>).

Salary: Level of appointment commensurate with qualifications; salary based on UC pay scales (<https://www.ucop.edu/academic-personnel-programs/>).

To Apply: The application should be submitted at:

Assistant Professor in Structural Engineering (<https://apol-recruit.ucsd.edu/JPF02336>)

Associate Professor in Structural Engineering (<https://apol-recruit.ucsd.edu/JPF02339>)

For further information about contributions to diversity statements, see:
(<http://facultyequity.ucsd.edu/Faculty-Applicant-C2D-Info.asp>)

EEO/AA Policy

The Department of Structural Engineering is committed to building an excellent and diverse faculty, staff, and student body. In addition to having demonstrated the highest standards of scholarship and professional activity, the preferred candidates will have experience or demonstrated contributions to a climate that supports equity, inclusion and diversity. Applicants are asked to submit a summary of their past or potential contributions to diversity in their personal statement. The University of California, San Diego, is an Equal Opportunity/ Affirmative Action Employer with a strong institutional commitment to excellence through diversity. For applicants with interest in spousal/partner employment, please see the website for the UCSD Partner Opportunities Program:
(<http://academicaffairs.ucsd.edu/offices/partneropp/default.htm>)

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Contact Information

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

Contact Lisa Bodecker
Structural Engineering
University of California, San Diego
9500 Gilman Dr.
Mail Code 0085
San Diego, CA 92093

Contact E-mail bodecker@ucsd.edu