THE UNIVERSITY OF CALIFORNIA – SAN DIEGO, Department of Structural Engineering (http://structures.ucsd.edu) has opened a search to fill an Assistant Professor position in the area of COMPUTATIONAL MECHANICS.

The candidate should have demonstrated experience and accomplishments in Computational Mechanics. A strong record of accomplishments in advanced numerical methods development for solving structural, geomechanics, structure/fluid interaction, or other multi-scale, multi-physics, coupled engineering problems is necessary. Candidates who have validated and verified simulations using results from experiments of different scales are preferred. Experience in one or more of the following areas is desired but not limited to: (a) integration of data science, advanced computational methods, and high-performance computing for modeling damage and failure mechanisms in material and structural systems; (b) computational assessment of innovative materials to improve the performance of systems subjected to extreme events; and (c) integration of numerical simulation with experimental testing and sensor technologies for ensuring infrastructure resiliency under extreme loading events. The successful candidate will complement the breadth of expertise and collaborate with the Center of Extreme Events Research (CEER), which is hosted by the Department of Structural Engineering and aims to advance engineering research essential for protecting critical infrastructure systems. This individual is expected to develop a successful research program, teach undergraduate and graduate students, and serve the university at different levels.

The Department of Structural Engineering consists of five focus areas (Civil Structures, Geomechanics, Computational Mechanics, Aerospace Structures and Advanced Composites, and Structural Health Monitoring) with an unparalleled record of interdisciplinary research. Structural Engineering houses world class 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 6-DOF shaking table for testing structural response modification devices, and multiple nondestructive evaluation/structural health monitoring laboratories. The Computational Mechanics faculty can take advantage of the experimental facilities and collaborate with Experimental Mechanics faculty to advance state-of-the-art in Computational Mechanics.

An earned doctoral degree in civil engineering, structural engineering, mechanical engineering or a closely-related field is required at the time of appointment. Salary is based on UC pay scales and market conditions commensurate with the level of appointment; salary based on UC pay scales.

Applications must include a cover letter, curriculum vitae, a statement of research describing scholarly interests and accomplishments, a statement of interest and/or accomplishments in teaching, and the names and contact information of four referees. A personal statement summarizing past or potential contributions to diversity is also required. Applications should be submitted electronically at https://apol-recruit.ucsd.edu/apply/JPF01691. For further information about contributions to diversity statements, see: http://facultyequity.ucsd.edu/Faculty-Applicant-C2D-Info.asp

UC San Diego is an affirmative action/equal opportunity employer, and the Jacobs School of Engineering is committed to building an excellent, diverse, and inclusive faculty, staff, and student body (http://www.jacobsschool.ucsd.edu/diversity/).
Candidates with experience with or willingness to engage in activities that contribute to diversity and inclusion are especially encouraged to apply.

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