



Assistant Professor – Civil Engineering Materials University of Nebraska-Lincoln

Description of Work

The University of Nebraska-Lincoln, Department of Civil and Environmental Engineering invites applications for a tenure-track position in Civil Engineering Materials. Candidates applying for this position are expected to have a strong commitment to teaching excellence at the undergraduate and graduate levels, and a demonstrable research capability that will enable them to develop an externally funded, independent research program and publish in leading scholarly journals. The successful candidate should be prepared to collaborate with colleagues, develop new research initiatives, and participate in ongoing research projects.

The UNL College of Engineering is committed to increasing the diversity of its faculty and seeks to attract and retain a high-performing and diverse workforce in which employees' differences are respected and valued to better meet the varying needs of the diverse populations we serve. The college fosters a diverse and inclusive work environment that promotes collaboration so that all individuals are able to participate and contribute to their full potential.

The Department of Civil and Environmental Engineering consists of approximately 33 faculty members, 500 undergraduate students, and 130 graduate students with an ABET/EAC accredited undergraduate curriculum and advanced programs leading to M.S. and Ph.D. degrees on the Omaha and Lincoln campuses. Additional information about the Department and College of Engineering can be found at <http://engineering.unl.edu/civil> and <http://engineering.unl.edu>. The successful candidate will be primarily located on City Campus in Lincoln with teaching responsibilities on both Lincoln and Omaha campuses. This faculty position is available in August 2022.

The UNL College of Engineering currently has over 200 faculty members and is embarking on a period of unprecedented growth including the hiring of an additional 100 faculty and we are expecting the successful candidate to help shape the future of this organization as it becomes established among the elite engineering programs in the country.

This position offers a tremendous interdisciplinary and cross-disciplinary opportunity to collaborate. Outstanding infrastructure exists for conducting research, including central facilities housing state-of-the-art equipment and instrumentation within the Nebraska Transportation Center, the Mid-America Transportation Center (Region VII University Transportation Center), the Midwest Roadside Safety Facility, the Nebraska Center for Materials and Nanoscience, the Nebraska Nanoengineering Research Facility, and the Holland Computing Center. Opportunities for collaborations across the University of Nebraska include the Nebraska Center for Energy Sciences Research; the Nebraska Center for Materials and Nanoscience; the Center for Nanohybrid Functional Materials; the Center for Brain, Biology, and Behavior; the Nebraska Athletic Performance Laboratory; Innovation Campus; and other state and federally funded research centers and programs.

Minimum Required Qualifications

Applicants must have a bachelor's degree in civil engineering or a closely related field and must have earned a Ph.D. in civil engineering or a closely related field prior to the start date of the appointment. Qualified applicants must have expertise in civil engineering materials. Candidates must also demonstrate excellence/commitment to engineering education and commitment to contributing to a culture that supports diversity and inclusion.

Preferred Qualifications

Preferred candidates will have a BS in Civil Engineering and/or a Ph.D. in Civil Engineering. Preferred candidates must demonstrate a strong record of scholarly achievement in one or more of the following areas: bituminous material development and testing, multi-scale and multi-physics modeling and characterization, micromechanical



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modeling for fracture and damage. Other areas of consideration include, but are not limited to sustainable, resilient, smart infrastructure materials and systems, pavement material reuse and recycling, responsive/adaptive materials, and applications of life-cycle cost and environmental analysis of pavement systems at different scales. Relevant postdoctoral or industrial experience, a strong record of grant applications and funding, and/or outstanding potential of scholarly success are preferred.

Review of applications will begin November 15, 2021 and continue until the position is filled. Applications must be submitted online at <http://employment.unl.edu>, requisition F_210152. Complete applications will include a cover letter; CV; research, teaching, and diversity statements (recommend no more than two pages for each statement); and a list of three to five references with full names and contact information. Note, please combine teaching, research, and diversity statements into a single pdf document and attach as "Other Document." Applicants are strongly encouraged to review the rubrics used by our search committees to evaluate candidate statements: <https://engineering.unl.edu/candidate-statements/>. After the review of applications begins, those with any missing required statement may not be given full consideration. Please contact Dr. Jiong Hu, Search Committee Chair, at 402-554-4106 or jhu5@unl.edu for assistance.

As an EO/AA employer, qualified applicants are considered for employment without regard to race, color, ethnicity, national origin, sex, pregnancy, sexual orientation, gender identity, religion, disability, age, genetic information, veteran status, marital status, and/or political affiliation. See <http://www.unl.edu/equity/notice-nondiscrimination>