Research Assistant Professor
University of Nebraska, Lincoln

Job Title	Research Assistant Professor
Department	Mechanical & Materials Engineering http://mme.unl.edu
Institution	University of Nebraska, Lincoln Lincoln, Nebraska
Date Posted	Feb. 4, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Research Professor Assistant Professor
Academic Field(s)	Mechanical Engineering Material/Metallurgy Manufacturing & Quality Engineering
Job Website	https://employment.unl.edu
Apply By Email	

Job Description

The Department of Mechanical and Materials Engineering (http://mme.unl.edu) at the University of Nebraska-Lincoln (UNL) invites applications for a non-tenure track Research Assistant Professor position in the area of metal Additive Manufacturing (AM).

The successful candidate will develop a research program in metal AM with a particular focus on powder-based techniques such as laser powder bed fusion and directed energy deposition, and hybrid processes. Additionally, the successful candidate will assist with overall daily management of the Nebraska Engineering Additive Technologies (NEAT) lab, including oversight of staff, project

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management, and adherence to all safety protocols. The successful candidate will also expand the user base of the NEAT facilities by developing collaborations with UNL and other faculty across the Great Plains region and beyond and by partnering with industry. Opportunities to contribute to the undergraduate and graduate programs are available as well through formal teaching within the manufacturing program and student mentoring in research.

The NEAT lab consists of two Matsuura Lumex Avance-25 systems, one capable of processing reactive materials, and an Optomec LENS 3D Hybrid Machine Tool. All the instruments are capable of subtractive machining as well. Extensive core facilities are also available for advanced materials characterization and analysis, including the NanoEngineering Research Core Facility (NERcF) and the Nebraska Center for Materials and Nanoscience (NCMN). The NERcF includes a Nikon XT H 225 ST x-ray computed tomography system, a ThermoFisher Helios 660 Nanolab dual-beam system, and various other capabilities. The NCMN manages a wide range of facilities, including x-ray diffraction and electron microscopy. Mechanical testing systems are available as well.

The Department of Mechanical and Materials Engineering consists of approximately 32 tenured/tenure-track faculty, over 700 undergraduate students, and 150 graduate students. Recent investments in the College of Engineering include a new $80M research building and a new $120M teaching and learning building. UNL supports an outstanding system of central facilities housing state-of-the-art instrumentation and computation capabilities within the Nebraska Center for Materials and Nanoscience (https://ncmn.unl.edu/), the Holland Computing Center (https://hcc.unl.edu/), and the Nebraska Nanoengineering Research Core Facility (https://engineering.unl.edu/nercf/). Opportunities for collaborations across the University of Nebraska include the University of Nebraska Medical Center, the Nebraska Center for Energy Sciences Research, the National Strategic Research Institute (NSRI), the Nebraska Center for Materials and Nanoscience, the Center for Electro-Optics and Functionalized Surfaces, the Center for Brain, Biology, and Behavior, the Nebraska Athletic Performance Laboratory, the Midwest Roadside Safety Facility, Innovation Campus, and other state- and federally-funded research centers and programs.

Qualifications

Applicants must have a Ph.D. or equivalent in mechanical engineering, manufacturing engineering, materials science, or a closely related field. Preference will be given to candidates with a scholarly record in the field of metal additive manufacturing.

Application Process

Review of application materials will begin March 3, 2025, and continue until the position is filled.

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Applications must be submitted via https://employment.unl.edu, requisition F_250010. Complete applications will include a single-page cover letter explaining your interest in the University of Nebraska-Lincoln; your curriculum vitae; a statement of research interests, accomplishments, and goals (no more than three (3) pages); a statement of how your combined professional and academic experiences have equipped you to make a valuable contribution to Inclusive Excellence, a fundamental aspect of the COE Complete Engineer® Program; and a list of three (3) professional references. Please combine the research and inclusive excellence statements into a single document not exceeding five (5) pages. After review of applications begins, those with any missing required statements may not be given full consideration.

EEO/AA Policy

As an EO/AA employer, the University of Nebraska considers qualified applicants 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 https://www.unl.edu/equity/notice-nondiscrimination

Contact Information

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

Contact Cathy Norquest
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University of Nebraska, Lincoln
Lincoln, NE