

FACULTY POSITION

Materials Science and Engineering

As part of the cluster hire at the interface of artificial intelligence, big data, and computation (<https://www.mtu.edu/engineering/hire/index.html>), the Department of Materials Science and Engineering at Michigan Technological University invites applications for a tenure-track faculty position at the assistant professor level. Senior level individuals with exceptional records will also be considered.

Research thrust areas of interest include (but are not limited to): (i) computer vision for microstructure analysis and feature extraction; (ii) machine learning for automated mining of big data generated from digital instrumentation, including '5 V' problems associated with atomic to nanometer scale collection, manipulation, and interpretation from atomic resolution STEM; (iii) computer simulation for interpretation of imaging, diffraction, property measurements, etc.; and (iv) expert system development for accelerated design of new material compositions and discovery of processing-microstructure-property relationships. We seek candidates who will help define their discipline by creating and exploiting new digital tools and techniques and collaborate across experimental and computational materials research.

Applications should be submitted online at <https://www.jobs.mtu.edu/postings/7342>. For more information about this hire (<https://www.mtu.edu/engineering/hire/materials.html>) and the department (www.mtu.edu/materials/), please contact the Department Chair Dr. Stephen L. Kampe at kampe@mtu.edu.

Michigan Tech is an ADVANCE Institution receiving two National Science Foundation grants to increase the participation and advancement of women and underrepresented/under-served individuals in STEM. Candidates are invited to bring a guest to an on-campus interview; additional details on dual career explorations in our Partner Engagement Program can be found at <http://www.mtu.edu/provost/programs/partner-engagement/index.html>.



Michigan
Technological
University

Yale

TENURE TRACK FACULTY POSITION

CHEMICAL ENGINEERING

The Department of Chemical and Environmental Engineering seeks applicants for a tenure-track faculty position at the Assistant Professor level with the anticipated start date of July 2019. The search is focused on individuals holding (or soon to hold) a PhD degree in chemical engineering or a related discipline and having research expertise in chemical engineering with a focus on design, synthesis, characterization, and/or assembly of quantum materials and materials for quantum computation. This area ties traditional strengths of the chemical engineering field in advanced materials synthesis, processing, and integration into industrial scale processes with the leading edge of materials research, while dovetailing with the University's science and engineering strategic initiative. Candidates will be sought who can establish collaborative efforts within the Department as well as the Departments of Mechanical Engineering and Materials Science, Electrical Engineering, Applied Physics, and Chemistry.

Applications should include a cover letter, CV, three representative publications, a description of research and teaching interests, and the names and email addresses of three references to <http://apply.interfolio.com/56478>. Review of applications will commence immediately and will continue until the position is filled.

Yale University is an Affirmative Action/Equal Opportunity employer. Yale values diversity among its students, staff, and faculty and strongly welcomes applications from women, persons with disabilities, protected veterans, and under-represented minorities.

NC STATE UNIVERSITY

Tenured or Tenure-Track Faculty Positions (Open Rank)

Department of Materials Science and Engineering

The Department of Materials Science and Engineering at North Carolina State University is in a growth mode and is seeking to hire multiple outstanding individuals in open rank tenured/tenure-track faculty positions. Successful candidates will have achieved or be on a trajectory for international prominence, and senior candidates will have demonstrated vision and skills to lead collaborative, multidisciplinary research efforts. We also value individuals who demonstrate a commitment to fostering creative teaching and instructional methods to enhance our undergraduate and graduate curricula. While outstanding candidates in any area will be considered, the focus of the search is in the following areas:

Oxides for electronic applications: Candidates should have demonstrated excellence in the design, synthesis, growth, and processing of innovative thin film inorganic materials for dielectric, piezoelectric, ferroelectric, electronic, optical, quantum information, or other functional applications. (position #00102045)

Transmission electron microscopy: Candidates should have demonstrated excellence in advancing state-of-the-art electron microscopy techniques and embracing advanced statistical and machine-learning methods for quantitative materials-structure determination. (position #0004597)

The NC State Department of Materials Science and Engineering currently has 27 tenured or tenure-track faculty with 140 graduate students and 150 undergraduate students. Faculty have numerous opportunities for engagement with major research centers and facilities such as the NC State Analytical Instrumentation Facility, Research Triangle Nanotechnology Network, DOE PowerAmerica Institute, the ASSIST NSF Engineering Research Center, the Center for Additive Manufacturing and Logistics, the NSF Center for Dielectrics and Piezoelectrics and the NSCU High-Performance Computing facility.

Using the above position numbers, interested candidates should submit the following materials to the NCSU HR website (<http://jobs.ncsu.edu>): cover letter, curriculum vitae, research statement, teaching statement, and names and complete contact information for three professional references, including email addresses and phone numbers.

Applicants are encouraged to apply by **December 31, 2018** for full consideration, although we will review applications until the position is filled.

Individuals with disabilities requiring disability-related accommodations during the application and interview processes, please call 919-515-3148.

NC State University is an equal opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, gender identity, age, sexual orientation, genetic information, status as an individual with a disability, or status as a protected veteran.