



JOINT ASSIST./ASSOC. PROFESSOR OF MATERIALS & METALLURGICAL ENG. & EMRTC RESEARCHER

The Department of Materials and Metallurgical Engineering (MTLS) and the Energetic Materials Research and Testing Center (EMRTC) at the New Mexico Institute of Mining and Technology (New Mexico Tech, NMT) invite applications for a joint Faculty/Research Scientist appointment. The faculty position, supported at a level of 50% for a 9-month academic year, is a tenure-track Assistant or Associate Professor position in Materials and Metallurgical Engineering. The Research Scientist position, supported at a level of 50% during the academic year and full-time during the summer, is supported by EMRTC and is focused on energetic materials and/or dynamic response of materials. Candidates with research experience in these areas are preferred. Salary and rank are commensurate with experience and qualifications aligned with the details in NMT's Policy and Procedure for Appointment, Promotion & Tenure. The preferred start date is the Spring 2025 semester (a 2025 Fall Semester start is also acceptable).

Department & Center Description: The MTLS undergraduate program is ABET accredited, offering a BS degree in Materials Engineering and options in Metallurgical Engineering and Polymer Science. The graduate program offers MS, ME and PhD degrees in Materials Engineering. MTLS has 7 tenured and several adjunct faculty conducting research in metallic alloys, functional ceramics and coatings, nano-materials, sustainable polymers, energetics and additive manufacturing, providing an outstanding hands-on educational environment for students. MTLS has several unique processing capabilities and state-of-the-art characterization laboratories for teaching and research. EMRTC has unparalleled capability for R&D in energetic materials, including dozens of test ranges, gas guns, sled tracks, and ordinance professionals. Opportunities to develop strong collaborations with nearby Sandia and Los Alamos National Laboratories exist.

University Description: NMT is a STEM-focused, public research institution with an enrollment of approximately 1700 undergraduate and graduate students. Students at all levels participate in research. Per NSF, NMT is the top public institution in the US and 18th overall (<https://nces.nsf.gov/pubs/nsf22321>) in the fraction of baccalaureate recipients going on to earn a PhD. NMT is a federally-designated Hispanic Serving Institution, and roughly 1/3 of our faculty and students are female.

Qualifications:

- [1] A PhD in Materials Science & Engineering, Metallurgical Engineering or closely related field, preferably with at least one degree (BS, MS or PhD) in Materials or Metallurgical Engineering.
- [2] An ability to work collaboratively in a research center environment.
- [3] An ability to establish an independent, externally funded research program supporting graduate and undergraduate students.
- [4] An ability to develop and teach undergraduate courses and laboratories in Materials and graduate courses in the applicant's area of expertise. Courses in materials thermodynamics, transport, dynamic behavior, and computation are of particular interest.
- [5] An ability to support student academic success by engaging and encouraging students from diverse academic, socioeconomic, and cultural backgrounds.
- [6] A commitment to professional and academic excellence.
- [7] Based on the research opportunities at EMRTC, US citizenship or permanent resident status is preferred, however; Foreign Nationals may be considered.

Application Details: We look forward to learning how the applicant's experiences and plans for teaching, research, and service would support our commitment to student success and advance the missions of the institution and the communities we serve. For full consideration please apply by July 31, 2024. Preferred start date is January 2025, with August 2025 negotiable. Applications will continue to be accepted until the position is filled. Candidates must apply by e-mail, attaching a single PDF document that incorporates all of the following:

[1] cover letter stating how the applicant's experience, interests, and strengths align with the required qualifications of the position at NMT

[2] curriculum vitae (CV)

[3] research statement that includes interests and approach as well as specific research plans (max 5 pages)

[4] teaching statement that includes instructional experience, a list of courses the applicant would be comfortable teaching, and approach to engaging and encouraging students from diverse backgrounds (max 2 pages)

[5] a list of three to five professional references, including at least three who are willing to provide letters upon request. Please do not include transcripts, publications, or other materials not requested above. Materials should be sent to nmtjobapps@npe.nmt.edu c/o Rosa Jaramillo and copied to mtls.dept@npe.nmt.edu, with "Materials and Metallurgical Engineering Faculty application 2024" in the e-mail subject line. For additional information please contact the search committee chair, Paul Fuierer, (email: paul.fuierer@nmt.edu).

Equal Employment Opportunity: NMT is an Equal Opportunity Employer. NMT is committed to creating a community in which a diverse population can learn, live, and work in an atmosphere of tolerance, civility, and respect for the rights and sensibilities of each individual. All those interested in the position are encouraged to apply, including women, individuals from minority groups, and persons with disabilities.

Benefits: NMT is committed to enabling healthy work-life balance for its employees, with excellent benefits (health, vision, dental), tuition fee waiver for self and dependents, a generous retirement plan, and access to a childcare center on campus.

Regional Attractions: New Mexico Tech is located in Socorro, in the scenic Rio Grande River Valley of central New Mexico... just one-hour south of Albuquerque with its many attractions and convenient airport access. Socorro itself is a place with rich history and tradition, offering easy and low-cost living. Nearby mountains and desert canyons provide opportunities for excellent hiking, climbing, biking and photography. The Bosque del Apache National Wildlife Refuge, located just south of Socorro along a major north-south flyway, offers some of the best birding in the USA. Skiing, hunting, fishing and rock-hounding are other favorite pastimes in the area and state.