

Faculty Positions in Structural Materials**Department of Materials Science and Engineering, North Carolina State University**

The Department of Materials Science and Engineering at North Carolina State University is seeking to hire multiple outstanding individuals in open rank tenured/tenure-track faculty positions in the general area of structural materials. 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. In-depth knowledge of the processing / structure / properties / deformation physics of metallic materials is desired. The successful candidates will be experimentalists. Examples of possible research interests include the following:

- Processing of metallic materials, especially additive manufacturing
- Alloying behavior and design
- Mechanical behavior of materials in extreme environments
- Light-weight materials
- Deformation mechanisms of metallic materials with novel microstructures
- Microstructural modifications to optimize mechanical properties
- Refractory alloys for elevated temperature applications

A Ph.D degree in Materials Science and Engineering or a related field is required, as well as demonstrated ability in teaching and research. The successful candidate will be expected to establish a funded, independent research program as well as to collaborate with other researchers at NC State. The candidate will be expected to teach at both the undergraduate and graduate levels. 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 NC State High-Performance Computing facility.

The Materials Science and Engineering Department at NC State is a top 20 department with 27 faculty, and about 150 undergraduate and 150 graduate students. The department is located on the NC State Centennial Campus in Raleigh, North Carolina. Raleigh is typically listed as one of the best cities in which to live, and is known for its mild climate, vibrant cultural community, affordable housing, and excellent business climate. It is part of the thriving Research Triangle area.

Required documents from applicants include a cover letter, curriculum vitae, research statement, teaching statement, and contact information for references. Applications can be submitted to: jobs.ncsu.edu/postings/121908