

## Senior Position in Synthesis and/or Characterization of Damage Tolerant Materials and Director of the Center for Advanced Research and Technology

Applications are invited for a full professor position in the area of characterization and/or synthesis of damage tolerant materials at the University of North Texas (UNT).

In the past five years, materials research at UNT has grown significantly adding over ten faculty in the departments of Materials Science and Engineering, Chemistry and Physics working with metals, ceramics, polymers, micro- and opto-electronic materials, nanomaterials, biomaterials, materials for renewable energy, and computational materials science with funding from federal (e.g., NSF, NIST, AFOSR, DOE and ARL) and non-federal (TI, GM, Sematech, SRC, etc.) agencies. UNT has acquired an excellent materials processing, testing, and characterization facilities including a three dimensional atom probe, an analytical high-resolution TEM, a FIB/FESEM, an environmental SEM, two XRD systems, an AFM, and new Raman and FTIR systems and a new XPS/AES system. These facilities are part of the recently formed Center for Advanced Research and Technology (CART) at UNT, which is an interdisciplinary center focused on engineering and applied sciences (physics, chemistry, and biology). UNT has a strong research effort in computational materials and is concurrently searching for an additional 5 positions. This new faculty member will be expected to both lead and work closely with both experimental and computational UNT faculty to forge national and international collaborative research proposals to federal, state, and private entities. Information about the department can be found at [www.mtsc.unt.edu](http://www.mtsc.unt.edu).

The successful candidate should have extensive experience in either synthesis of functionally-graded, nanoscale materials development, self-repairing structures, or characterization and analysis of materials at various scales. An earned doctorate in Materials Science and Engineering, Chemistry, Mechanical Engineering, or related field is required. Successful acquisition of US Federal funding is preferred. Depending on the candidate's interest and background, the successful candidate can be in the Materials Science and Engineering, Mechanical Engineering, Physics, or Chemistry departments. Joint appointments are possible, if desired. The successful candidate may have the opportunity to serve as the Director of CART.

Applicants must submit a cover letter, curriculum vitae, a statement of research interests and plans to collaborate with current UNT faculty, full publication list, an external funding history, and the names of three references to: Multiscale Damage Characterization Search Committee, Department of Materials Science and Engineering, University of North Texas, 1155 Union Circle #305310, Denton TX 76203-5017. Screening of applications will begin upon receipt and continue until the search is closed.

Located 35 miles north of the Dallas/Ft Worth Metroplex, UNT is the 4<sup>th</sup> largest university in Texas and is a Class I-Doctorate Granting Institution. UNT currently has over 34,000 students in 93 bachelors, 104 masters, and 49 doctoral programs. The DFW Metroplex is an economically vibrant region of over 6 million people, with a low cost of living, numerous industrial establishments, and excellent school districts. This area and the university provide excellent cultural and educational opportunities as well as exceptional employment opportunities for spouses. AA/ADA