



Multiscale Modeling

The University of North Texas invites applications for a tenured Full Professor in multiscale modeling. Salary is competitive and will be commensurate with qualifications. This hire in the **Materials Modeling Research Cluster (MMRC)** is part of a multi-year, \$25 M investment by UNT in multi-disciplinary research collaborations (<http://web3.unt.edu/news/story.cfm?story=11146>).

The successful candidate will have an established international reputation with an active, externally funded research program. An earned doctorate in Materials Science, Engineering, Chemistry, Mechanical Engineering, Physics or a related field is also required. The area of specialization is broadly defined, but preference will be given to candidates who complement existing MMRC strengths, e.g., multiscale modeling of advanced materials, alloys, industrial or defense systems, chemical, physical, or biological systems, catalysis, alternate energy, development and implementation of multiscale models, integrated computational chemical/materials engineering, or multiphysics modeling. All applicants must apply by visiting <http://facultyjobs.unt.edu/applicants/Central?quickFind=50513>. Review of applicants will begin immediately and continue until the search is closed.

The University of North Texas is undergoing significant expansion in research personnel and capabilities (<http://www.unt.edu/president/insider/aug09/schooltwatch.htm>). The new hire will join an exceptionally productive and collaborative cluster of researchers – 13 faculty, *ca.* 50 researchers – encompassing computational chemistry, condensed matter theory, fluid/particle dynamics as well as atomistic, mesoscale and continuum level modeling of advanced materials. Current MMRC faculty are funded by the NSF, DOE, Welch Foundation, AFRL, and other private and industrial sponsors, and participate in grants totaling >\$30 million, including several national centers including an NSF Chemical Bonding Center and a DOE Energy Frontier Research Center. UNT is also the home of the Center for Advanced Scientific Computing and Modeling (CASCaM) (<http://cascam.unt.edu/>), an interdisciplinary center of excellence in advanced scientific computing and modeling. CASCaM has its own dedicated 5 Tflop, 2000-core supercomputing facility, maintained and operated by a Ph.D.-level research scientist, which will be upgraded this academic year. Additionally, a new \$1.5M research computing facility will come online in early 2010.

UNT is a Class I – Doctorate Granting Institution strategically located in Dallas-Fort Worth (DFW) and is 30 minutes from the DFW International Airport. DFW is an area of more than six million people, with significant economic growth, 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. UNT is the fourth largest university in Texas with over 36,000 students. UNT is an EOE/ADA/AA institution.