POST-DOCTORAL RESEARCH POSITION IN COMPUTATIONAL MATERIALS MODELING

Department of Materials Science and Engineering
University of North Texas

The Department of Materials Science and Engineering in the College of Engineering at the University of North Texas (UNT) seeks highly qualified applicants for a postdoctoral researcher position in computational materials modeling. The successful candidate will work on multiscale modeling of defects and microstructures (e.g., dislocations, grain boundaries, etc), and damage and failure of materials to design and evaluate advanced superalloys for aerospace applications, as part of the federally-funded research program in the Institute for Science and Engineering Simulation (ISES).

Qualifications:
1.   A PhD in solid mechanics, materials science, or mechanical engineering, or in a related area is required.
2.   Working knowledge in one or more areas of finite deformation continuum mechanics, crystal plasticity, and damage modeling is required.
3.   Experience in several of these areas is highly preferred.
4.   Working experience in computational modeling with atomistic, dislocation dynamics, or finite element methods is required.
5.   Working experience in FORTRAN programming and parallel computing is highly desired.

The position is available immediately. The postdoctoral researcher will work in the computational materials modeling group mainly with Professors Zhiqiang Wang and Alan Needleman along with many opportunities to interact with other faculty members in the Center for Advanced Scientific Computing and Modeling (CASCaM) including researchers from materials science, chemistry, and mechanical engineering and energy. Interested applicants should send a CV with a cover letter, the names of at least three references and a one page description documenting their experience in the desired areas. Applications must be submitted at https://facultyjobs.unt.edu/applicants/jsp/shared/position/JobDetails_css.jsp?postingId=145643.

UNT is a Class I – Doctorate Granting Institution in the Dallas-Fort Worth (DFW) metroplex, and is 30 minutes from the DFW International Airport. UNT is the 3rd largest university in Texas with over 35,000 students. UNT is an AA/ADA/EOE institution. Women and minority candidates are strongly encouraged to apply. The DFW metroplex has more than six million people, numerous industrial establishments, and excellent school districts. It is one of the largest metropolitan areas in the US. This area and the university provide exceptional cultural and educational opportunities as well as employment opportunities for spouses.

UNT is an Affirmative Action/Equal Opportunity Employer.