



Senior Faculty Opening: Computational Chemistry

The Department of Chemistry at the University of North Texas seeks candidates for a senior-level faculty position in computational chemistry. The area is broadly defined, but preference will be given to candidates who complement existing departmental strengths. The successful candidate will have an established international reputation with an active, externally funded research program.

The UNT Chemistry Department is undergoing a period of significant expansion in personnel and graduate research capabilities. UNT is the home of CASCaM, a federally-sponsored regional center of excellence in advanced scientific computing and modeling, and a consortium that currently includes 11 computational faculty, housed in Chemistry (6) and Engineering (5). CASCaM has its own dedicated 5 Tflop, 2000-core supercomputing facility, maintained and operated by a Ph.D.-level research scientist. The new hire will join an exceptionally productive cluster of researchers in computational chemistry, ~300 refereed papers in the past several years, the majority in leading journals within their subdisciplines. Current CASCaM faculty are funded by the NSF, DOE, Welch Foundation, AFRL, and other private and industrial sponsors, and participate in grants totaling >\$20 million.

- **Wes Borden.** Welch Professor of Chemistry. Associate Editor of the *Journal of the American Chemical Society*. Computational organic and organometallic chemistry.
- **Alan Needleman.** Visiting Professor of Materials Science and Engineering at UNT. Member of the National Academy of Engineering. Continuum modeling of aerospace materials.
- **Tom Cundari.** Professor of Chemistry. Co-editor of Reviews in Computational Chemistry. Co-director of CASCaM. Computational inorganic chemistry.
- **Angela Wilson.** Associate Professor of Chemistry. NSF CAREER awardee. IJQC Young Investigator Award. Co-director of CASCaM. Development and implementation of high-accuracy quantum chemical methods.
- **Paul Bagus.** Research Professor of Chemistry. Fellow of the American Physical Society. IBM Outstanding Innovation Award and an Outstanding Contribution Award. Computational spectroscopy and nanochemistry.
- **Paul Marshall.** Regents Professor of Chemistry. Welch Foundation and NSF grantee. Experimental and computational studies of gas-phase chemistry and combustion processes.
- **Marty Schwartz.** Regents Professor of Chemistry. Air Force Research Laboratory and Welch Foundation grantee. Computational organic, materials and organometallic chemistry.
- **Sandra Boetcher.** Assistant Professor in Mechanical and Energy Engineering. Ph.D. in Mechanical Engineering from University of Minnesota. Modeling of convection, biomedical heat transfer and fluid flow.
- **Zhi-Gang Feng.** Assistant Professor in Mechanical and Energy Engineering. Ph.D. from Tulane University. Modeling of turbulence and particulate flow, and computational fluid dynamics.
- **Jincheng Du.** Assistant Professor in Materials Science and Engineering. Ph.D. from Alfred University. Atomistic modeling of amorphous systems, *ab initio* modeling of surfaces, interfaces, heterogeneous catalysts.
- **Srinivasan Srivilliputhur.** Ph.D. from the University of Washington. Large-scale computer simulations of material failure deformation and failure of materials in the presence of complex chemical reactions.

For more information or to be considered for the position contact Tom Cundari, (tomc@unt.edu), Chair, Computational Chemistry Search Committee, Department of Chemistry, PO Box 305070, University of North Texas, Denton, TX 76203-5070. Applications should include a cover letter describing qualifications, a resume or curriculum vita, a narrative statement of research interests, and lists of publications and current research support.

UNT is a Class I – Doctorate Granting Institution in the Dallas-Fort Worth metroplex, and is 30 minutes from the DFW International Airport. UNT is the third 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. Review of applicants will begin immediately and continue until the position is filled.