

The Department of Chemical and Biomolecular Engineering at the University of Tennessee in Knoxville, TN is looking for a post-doctoral research associate to conduct multi scale modeling of polymer electrolyte membranes. Specifically, the researcher will be expected to perform mesoscale and atomistic level (classical and quantum mechanical) modeling of structure and transport in various ionomers. The post-doc will have the opportunity to work in the dynamic research environment of the UT Computational Materials Research Group (<http://clausius.engr.utk.edu/cmrg/index.html>) and to collaborate with the group of Prof. Mark Tuckerman at New York University. It is expected that the researcher will have completed a Ph.D. in Chemical Engineering, Materials Science, or Theoretical Chemistry. A record of accomplishment is expected as demonstrated through several peer reviewed publications in leading frontline scientific journals involving computations and simulations of materials properties. Fluency in C/C++ or FORTRAN 90, and experience with computational programs including: GAUSSIAN, VASP, Materials Studio, etc. Highly desirable experience includes a background in polymer physics and/or fuel cell materials. The position is available with a start date as early as May 1, 2008. With satisfactory work completed in the first year the position may be extended up to a total of 3 years. The salary is \$37,000 per year. Interested individuals should send a CV, list of publications and references to Prof. Stephen J. Paddison at spaddison@utk.edu.