Postdoctoral Positions in Materials Simulation of Amorphous Materials
University of Wisconsin – Madison

We invite applications for a postdoctoral position at the University of Wisconsin – Madison jointly with Professors Paul Voyles and Dane Morgan in the Department of Materials Science and Engineering. The work is focused on developing a next generation structure determination tool that combines atomistic energetics, electron microscopy data, and other experimental data for determining atomic structure of metallic glasses. The ideal candidate combines skills in molecular modeling with an interest in programming, optimization, and a desire to work closely with experimental data. The work is part of large Materials Genome Initiative funded effort in metallic glasses at Wisconsin[1] and offers extensive interaction with several faculty in experiment, modeling, and fundamental theory.

A PhD in materials science, physics, chemistry, chemical engineering, or a related field is required. Familiarity with one or more of modern programming techniques, molecular simulation, optimization, and amorphous systems is preferred, but capable and enthusiastic applicants with varied background will be considered. The research will develop broadly applicable skills and understanding and we encourage applications from those with a range of materials and modeling interests.

The appointment is initially for one year with the expectation of this being extended if the work is going well. Interested applicants should send a CV in PDF format and contact information for 3 references to group recruiter Guangfu Luo at uwcmghire13@gmail.com. Review of applicants will begin immediately and will continue until the position is filled.

For further information on our research groups please see:

Professor Paul Voyles group (http://tem.msae.wisc.edu): We are a structure of materials group focused on electron microscopy. We have developed the technique of fluctuation electron microscopy to study the nanometer-scale structure of amorphous materials.

Professor Dane Morgan and the Computational Materials Group (CMG) (http://matmodel.engr.wisc.edu/): CMG is a joint effort of Izabela Szlufarska and Dane Morgan in the Department of Materials Science and Engineering at UW Madison. We are a highly active group, with over 25 members and work in areas including amorphous alloys, nuclear materials, nanomechanics, nano-bio interfaces, fuel cells, batteries, semiconductors, and geophysics.

[1] See http://nsf.gov/awardsearch/showAward?AWD_ID=1332851 for a description.