We invite applications for a joint postdoctoral position at the University of Wisconsin – Madison with Professor Paul Voyles and Professor Dane Morgan in the Department of Materials Science and Engineering. We are looking for someone to help us develop and apply transformative tools for structure determination. You will work with a world-class team developing our Universal Structure Identification Toolkit (USIT), which integrates advanced modeling of experiments (STEM, X-ray scattering), molecular simulations, and cutting edge numerical optimization to yield full three dimensional atomic scale structures. You will use this toolkit to determine structures and structure-property relationships of advanced materials in such areas as bimetallic nanoparticle catalysts, spintronic heterostructures, and amorphous alloys. The work is part of active collaborations with top modeling and experimental groups and will enable career expanding interaction and collaboration with multiple researchers in the field.

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, numerical methods, or STEM/X-ray simulation 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 uwcmghire152@gmail.com. Review of applicants will begin immediately and will continue until the position is filled.

Please find more information on Professor Paul Voyles at http://tem.msae.wisc.edu and Professor Dane Morgan at http://matmodel.engr.wisc.edu/