

Postdoctoral Position in High-Pressure Material Simulations

A postdoctoral position is available immediately in the laboratory of Dr. Yang Song, Department of Chemistry, Faculty of Science at Western University, London, Ontario, Canada. The Song lab has a long-standing interest in the development and characterization of novel functional materials especially materials for energy applications by utilizing extremely high pressure as a unique tool, supported by a wide range of in situ spectroscopic and synchrotron techniques. We are seeking a motivated individual to perform computational studies on material structures and properties at high pressures to complement our experimental efforts. The responsibilities of the candidate are leading multiple research projects including research topics specified in contract programs by developing and applying ab initio computational methods, manuscript preparation and participation in student training. Qualified applicants for this position should have (or will receive) a PhD degree in Chemistry, Physics, Materials Science/Engineering or related fields, with significant experience in condensed matter material simulations and high-pressure computational studies on structural and property predictions using density functional theory, molecular dynamics simulations, or other prevailing computational methods/packages. Expertise in development and implementation of advanced computing such as machine learning would be an asset. Excellent computational infrastructures and resources are accessible both locally and via SharcNet/Compute Canada. A competitive stipend will be paid commensurate with experience. The appointment will be one year initially and renewable to multiple years subject to satisfactory deliverables and funds availability. Please send a statement of interest, Curriculum Vitae, and the names of at least two references electronically to Prof. Yang Song, Ph.D., Department of Chemistry, Western University, 1151 Richmond St., London, Ontario, Canada N6A 5B7. Email: yang.song@uwo.ca.