Postdoctoral Associate Position Opportunity

Department: Mechanical & Materials Engineering
Supervisor: Dr. Hamid Abdolvand and Dr. Yang Zhao

Description of Research and Position:
Applications are invited for a one year postdoctoral associate position in the area of advanced characterization of energy materials. The aim of the project is to use in-situ experimental techniques, e.g., diffraction or imaging, to characterize the mechanical properties and fracture of all-solid-state batteries.

Accountabilities of the Role:
• Development of in-situ techniques to understand the mechanical properties for all-solid-state batteries
• Writing of technical reports and scientific publications.
• Monitoring the work plan of his/her individual research project, making sure that milestones are achieved and tasks are finalized in a timely manner.
• Actively participating in research meetings, seminars, etc.
• Assisting in the training and supervision of students.

Educational Requirements necessary for the Role:
PhD in Mechanical and Materials Engineering, Chemistry, or related field with excellent skills in:
• Research experience on Li-ion/Na-ion batteries or solid-state batteries.
• Ability to conduct in-situ experiments e.g., in SEM or at synchrotron X-ray or neutron facilities.
• Ability to conduct numerical modeling, e.g., finite element.
• Advanced electrochemical characterization (e.g., cyclic voltammetry, galvanostatic charge discharge tests)

Number of Opportunities: 1
Proposed Start Date: 09/01/2022
Length of Appointment: 1 year

Please note that the length of appointment may change.

How to Apply:
Please email your CV and cover letter to Hamid Abdolvand (hamid.abdolvand@uwo.ca) and Yang Zhao (yzhao628@uwo.ca).

Posting Expires: March 21, 2022
Note: Postings must be publicly available for a minimum of 10 days.