

Post-Doctoral position: in-situ characterization of all-solid-state batteries

Applications are invited for a 2-year postdoctoral fellowship in the area of advanced characterization of energy materials. This position is a full-time position at the University of Western Ontario, Canada, and the selected applicant can start effective immediately.

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. Candidates with relevant experience in micro or macroscale numerical modeling of all-solid-state batteries will also be considered.

The selected applicant will have access to the state-of-the-art facilities for the manufacturing of all-solid-state batteries that are located at the Mechanical & Materials Engineering Department at the University of Western Ontario. They will have access to high resolution SEM/EBSD systems as well as XRD, XPS, and ALD facilities.

Applicants will be assessed based on how they meet the **following criteria**:

- Excellent degree in the relevant discipline, e.g., all-solid-state batteries
- Excellent written and spoken communication skills

The following qualities are desirable:

- 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.
- Ability to program in MATLAB or other programming languages
- Ability to work in a collaborative environment

Application procedure:

Please email your CV and cover letter to [Hamid Abdolvand \(hamid.abdolvand@uwo.ca\)](mailto:hamid.abdolvand@uwo.ca) and [Yang Zhao \(yzhao628@uwo.ca\)](mailto:yzhao628@uwo.ca). This position is open until filled.

Relevant information about the group can be found in the following links:

Deformation group: <https://www.eng.uwo.ca/msdl/>

Energy Storage Lab: <https://www.eng.uwo.ca/mies/>

We are committed to employment equity and diversity in the workplace and welcome applications from women, members of racialized groups, Indigenous peoples, persons with disabilities, persons of any sexual orientation and persons of any gender identity or gender expression.