

## Postdoctoral Associate Position Opportunity

**Department:** Mechanical & Materials Engineering

**Supervisor:** Prof. Xueliang Andy Sun

### Description of Research and Position:

The candidate will join a highly motivated team for the development of all-solid-state battery, especially the electrode/solid-state electrolyte interfaces engineering. The candidate will be in charge of developing solid-state electrolytes and approaches for the stabilization of the interfaces; Protection of Li metal, assembling the all-solid-state batteries; understanding component interactions; and identifying, monitoring and optimizing key parameters for best performance.

### Accountabilities of the Role:

- 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 Chemistry, Materials Engineering or related field with excellent skills in:
- Thin film deposition techniques, such as atomic layer deposition, sputtering.
  - Characterization of materials using various analytical techniques (XRD, SEM, Raman, XPS, RBS etc.).
  - Approaches for the interfaces engineering between solid-state electrolyte and electrodes.
  - ~~Advanced electrochemical characterization (e.g. cyclic voltammetry, galvanostatic charge-discharge tests)~~

**Number of Opportunities:** 1

**Proposed Start Date:** 02/01/2019

**Length of Appointment:** 12 months

*Please note that the length of appointment may change.*

### How to Apply:

For further information about the position please contact Prof. Xueliang Sun  
xsun9@uwo.ca

**Posting Expires:** January 31, 2019

*Note: Postings must be publicly available for a minimum of 10 days.*