Western Engineering
Postdoctoral Associate Position Opportunity

Department: Mechanical & Materials Engineering
Supervisor: Prof. Robert J. Klassen

Description of Research and Position:
Area of Research: Study of the effect of chemical and thermal conditions on the creation of high strength nickel boride layers on nickel alloys using a pack-boriding sintering process.
Position: Laboratory work on preparing and characterize boron-bearing powder compositions as a function of sintering temperature and time. Characterizing the effect of sintering conditions on the strength and morphology of the resulting nickel boride layer on a nickel alloy substrate.

Accountabilities of the Role:
Performance of the following tasks and supervision of students involved with these tasks:
- In-laboratory powder preparation and analyses
- Performing in-laboratory sintering operations
- Performing in-laboratory sectioning, x-ray diffraction, optical/electron microscopy, and nano-indentation hardness measurements of the as-sintered boride layer on a nickel alloy.

Educational Requirements necessary for the Role:
- PhD in Mechanical, Materials, or Chemical Engineering

Number of Opportunities: 1
Proposed Start Date: 11/15/2018
Length of Appointment: 10 months
Please note that the length of appointment may change.

How to Apply:
To apply, please send your CV and a statement of research interests/history relevant to this position to Professor Robert J. Klassen by email at rjklassen@uwo.ca.

Posting Expires: November 9, 2018
Note: Postings must be publicly available for a minimum of 10 days.