

Posting: Jan 19, 2018

University of Toronto  
Faculty of Applied Science and Engineering  
Mechanical and Industrial Engineering Department

**Area of Research:** Thermofluidis for Energy and Advanced Materials (TEAM)

**Description of Duties:** The main roles of the candidate will be to perform electrochemical cell testing, imaging, and continue the development of a pore network model for modelling multiphase flows involved with electrochemical energy conversion technologies, such as fuel cells and electrolyzers. The candidate will be expected to work independently, provide leadership to an interdisciplinary team of graduate students, produce publishable results, and publish frequently.

**Required Qualifications:** We are seeking a postdoctoral candidate, who holds a PhD in engineering or chemistry, to work in the area of thermofluids for energy and advanced materials. Experience in numerical modelling or experimentation involving thermofluids is required. Knowledge of transport in porous media is required, and experience in PEM fuel cells or electrolyzers will be considered a great asset. Research will be performed in the area of transport in porous media for fuel cells and electrolyzers, and leadership will be required to manage students that are working in these areas. Providing strong leadership to a group of MSc and PhD students is a key role. Excellent communication skills and strong independent research skills are required.

**Salary:** \$34,000

**Expect start date:** March 1, 2018

**Term:** 01-year term with a possible renewal

**FTE:** 100%

The normal hours of work are 40 hours per week for a full-time postdoctoral fellow (pro-rated for those holding a partial appointment) recognizing that the needs of the employee's research and training and the needs of the supervisor's research program may require flexibility in the performance of the employee's duties and hours of work.

**Application Instructions:** The application package (to be emailed to A. Bazylak) should include a cover letter and CV, including a list of 3 professional references.

**Supervisor:** Dr. Aimy Bazylak Professor  
Department of Mechanical & Industrial Engineering

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**Closing Date:** February 15, 2018

Employment as a Postdoctoral Fellow at the University of Toronto is covered by the terms of the CUPE 3902 Unit 5 Collective Agreement.

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The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons/ persons of colour, women, Indigenous/ Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas.