

Position Title: Post-doctoral Research Fellow

Faculty/University: Faculty of Engineering and Applied Science, University of Ontario Institute of Technology (UOIT)

We invite you to consider working along with UOIT's globally trained faculty as we further our reputation as a leading-edge learning environment and delivering innovative research. UOIT has a 21st-century vision of teaching and learning excellence. Our educational philosophy is to challenge, encourage innovation, and connect our faculty, students and the community, while respecting the best practice traditions of Canada's established universities.

Position Requirements:

In collaboration with Atomic Energy of Canada Limited, Argonne National Laboratory, and a number of other industry and university partners, a UOIT-led team of researchers is developing an integrated copper-chlorine (Cu-Cl) cycle for thermochemical water splitting and hydrogen production. The thermochemical cycle consists of a sequence of chemical / thermal processes that are connected together, to form a closed internal loop that re-cycles all compounds on a continuous basis, without emitting any greenhouse gases. Hydrogen is a clean energy carrier and potentially major solution to the problems of climate change and depleting conventional fuels.

To this end, we are seeking a Post-doctoral Research Fellow to support this project. Tasks / duties include, but are not limited to: 1) design, development and testing of thermal and chemical engineering equipment for the Cu-Cl cycle; 2) data acquisition and correlation development based on the experimental data; and 3) material identification and acquisition of corrosion data for prolonged exposure of materials to the corrosive working fluids.

Qualifications:

Preferred candidates will have a PhD degree within the last five years in chemical engineering, with experimental experience in chemical reactor design and materials science. Past experience with thermochemical equipment in chemical plants is desirable. Strong communication skills are an asset.

To apply:

Interested candidates should submit a covering letter and resume along with three references to greg.naterer@uoit.ca. Only those selected for an interview will be contacted.

The University of Ontario Institute of Technology is an equal opportunity employer and welcomes applications from qualified woman and men, including members of visible minorities, Aboriginal peoples and persons with disabilities. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.