PhD Candidate Announcement:

Department of Electrical and Computer Engineering
Laboratoire d'innovation et de recherche en énergie intelligente (LIREI) www.uqtr.ca/lirei
Institut de recherche sur l'hydrogène
Université du Québec à Trois-Rivières, C.P. 500
3351 boulevard des forges
Trois-Rivières (Québec) Canada G9A 5H7

The Smart Energy and Innovation Research Laboratory (**www.uqtr.ca/lirei**), in collaboration with the Hydrogen Research Institute, is seeking candidates for a PhD position. **We are looking for PhD students with knowledge in the field of smart power and energy systems.**

Required qualifications:

The candidate must have completed or be organized to complete their graduate training before the beginning of the position. The candidate must hold a master's degree in electrical and computer Engineering or a related field, and their expertise and research interests should span the following areas:

- Smart grid technologies
- Distributed energy resources modelling and integration
- Transactive energy networks
- Home energy management systems
- Energy storage systems and applications
- Greenhouse modelling and energy management

In addition, the candidate should be familiar with the applications of mathematical methods such as Control & Optimization and machine learning algorithms to power systems. They should be skilful at programming (Python, MATLAB, etc.) and capable of conducting both theoretical and experimental studies. Sufficient knowledge in English (or French) speaking and writing is also required.

Grant : The PhD grant is competitive.

Start: September 2025

Supervisor: Professor of LIREI

Application instructions:

Interested applicants should submit the following documents to lirei.info@uqtr.ca
(1) a cover letter detailing their background and interest in the position, (2) a CV, (3) Degree Certificates and Transcripts, and (3) the names and contact information of at least two references.

Decision process:

Applications will be reviewed immediately, and selected applicants will be invited for an interview. Les candidatures seront examinées immédiatement et les candidats sélectionnés seront invités à une entrevue. The successful candidate will be invited to register from the Department of Electrical and Computer Engineering.