



Postdoctoral call :

Optimization Methods for Transmission & Distribution System Integration

In partnership with Hydro Québec, we are recruiting a postdoctoral researcher to pursue research in the optimization of future energy systems. We invite applications for a postdoctoral fellow position at Polytechnique Montreal, located in Montreal, Canada.

Short project description :

The project's objective is to propose a unifying framework for coordinating the operations of transmission and distribution systems as part of a large-scale NSERC Alliance research initiative. The project is located at the intersection of blackbox optimization, transmission and distribution-level operation and planning, and distributed energy resources optimal management. The candidate will work with a diverse team of graduate students to integrate their respective research projects as to balance the trade offs between key operational decisions from both transmission and distribution systems. Variable renewable energy sources at the transmission system level and decentralized energy resources at the distribution system level will also be modeled.

Program : Postdoctoral fellowship

Academic units : Department of Mathematical and Industrial Engineering & Department of Electrical Engineering, Polytechnique Montréal.

Supervisors : Prof. Antoine Lesage-Landry, Prof. Hanane Dagdougui, Prof. Sébastien Le Digabel, and Prof. Charles Audet. The postdoctoral research will collaborate with IREQ researchers.

Required profile :

- PhD in electrical engineering, or applied mathematics, or in any other relevant field with mathematical background ;
- Strong expertise in optimization and power system engineering ;
- Solid experience in programming - Matlab, Python, C++, Julia ;

Funding : financial support of \$65,000/year + social benefits.

Starting date : Fall 2022/Winter 2023.

Application :

If interested in this position, please send your CV and motivation letter to Professors H. Dagdougui and A. Lesage-Landry at : hanane.dagdougui@polymtl.ca & antoine.lesage-landry@polymtl.ca and put the following email subject line : Interested postdoc - Alliance HQ project. Moreover, samples of your most relevant publications will be appreciated.

We are committed to promoting equity, diversity, and inclusion. We encourage and welcome all people with the required profile to apply, including, but not limited to, women, visible minorities, and people with disabilities.