

Funded PhD & MASc Students, GHG emissions reduction playbook

Building Performance Research Center

Carleton University, Ottawa, ON

We are seeking multiple MASc and PhD students for a funded research project in collaboration with the National Research Council Canada to develop a GHG emissions reduction playbook that provides building owners and managers with practical steps and guidelines for GHG emission reduction strategies across their building portfolio. Successful candidates as a group will extensively use building performance simulation software, conduct operator interviews and field surveys, employ data analysis techniques, and develop web-based software tools.

Qualifications

Ideal candidates are expected to have following attributes:

- Background in building engineering or related areas (mechanical engineering, systems and computer engineering, electrical engineering, engineering physics, civil engineering);
- Knowledge of building energy modelling techniques and HVAC systems (knowledge of EnergyPlus is an asset);
- Knowledge of programming environments such as R, Python, and Matlab;
- Familiarity with statistical analysis and modelling;
- Ability to develop new skills and explore new ideas.

About BPRC

Carleton Building Performance Research Centre is a group of eight professors and over 50 MASc, PhD, and postdoctoral researchers specialized in building and community design and operations for low energy and greenhouse gas emissions, while improving comfort and usability.

About Ottawa

Located in Ottawa, Ontario, Canada's capital city has a population of over one million and reflects the country's bilingual and multicultural character. Carleton's location in the nation's capital provides many opportunities for research with private and public sector partners including federal research laboratories. To learn more about our university and the City of Ottawa, please visit www.carleton.ca/about.

Application instructions:

Candidates are encouraged to highlight qualifications relevant to the areas of special interest in energy modelling, building performance analysis, programming, statistical analysis and modelling, Apply by sending your CV, contact information for two references, and a writing sample to burak.gunay@carleton.ca.

date posted: 2023-11-24

closing date: until the position is filled