



UNIVERSITY  
of Prince Edward  
ISLAND

SCHOOL OF SUSTAINABLE  
DESIGN ENGINEERING



## **MSc and PhD Student Research Opportunities for Renewable Energy Integration in PEI**

Faculty members Matt Hall and Andrew Swingler at the University of Prince Edward Island School of Sustainable Design Engineering are seeking prospective MSc and PhD students for a fully funded research project aimed at advancing integration of renewable energy sources on Prince Edward Island.

PEI is a leader in wind power, meeting over a third of its electric energy demand through on-Island wind farms. Further increasing renewable energy is a provincial priority, but challenges associated with intermittency of the already-high wind penetration need to be overcome. As such, PEI is a forward-looking microcosm for other regions wanting to harness renewable energy and increase energy independence.

This project centers on modelling energy flows throughout the province and exploring techno-economic pathways for future energy system decarbonization. Key issues include combining complementary renewable resources (e.g. wind and solar power), using emerging energy storage technologies, harnessing flexible loads for demand response, and coordinating electrical vehicle charging and vehicle-to-grid discharging.

The project will proceed in partnership with the PEI Energy Corporation, which oversees energy systems in the province. This is an opportunity to contribute to PEI's sustainable energy future and to train in a field of growing importance. Candidates should have a strong academic background, proficiency in computer programming and simulation, and familiarity with renewable energy technologies. Funded research assistant positions are available immediately.

*For more information or to apply, send your letter of interest, CV, and PDF transcripts  
to [mthall@upe.ca](mailto:mthall@upe.ca) and [aswingler@upe.ca](mailto:aswingler@upe.ca)*