UNIVERSITY of Prince Edward ISLAND | Faculty of Sustainable Design Engineering

MSc Position in Advanced Electric Drive System

Descriptions:

Dr. Gaoliang Fang at the University of Prince Edward Island is currently seeking an outstanding and self-motivated candidate for a funded MSc position in advanced electric drive systems starting January 2025 or Summer 2025.

Research and innovations are still required to develop high-performance, high-speed, low-cost, and reliable electric motor drives for electrified vehicles (EVs). In this MSc program, the student is expected to develop novel control algorithms and modulation strategies for high-speed electric drive systems.

Eligibilities and skills

- Bachelor' degree in electrical engineering or related discipline is required. Average/GPA over 80% is required.
- Background knowledge in the related topic such as traction motors, motor control, power electronics and engineering mathematics, is essential.
- Candidate should be passionate to conduct research in the given topics as assigned by the supervisor.
- The candidate is required to have good communication and team-working skills.
- Candidate is expected to disseminate their research results in patents and leading international journals and conferences, and also present their research in professional events.
- Experience in software tools such as Matlab/Simulink, DSP/FPGA programming, Ansys Electronic Desktop, PSIM, and MotorCAD will also be an asset.
- Please refer to other conditions and terms of the University of Prince Edward Island for graduate student admissions:

  English Requirements for Graduate Programs:
  https://www.upei.ca/admission-requirements/english-language-proficiency-requirements/graduate-programs,
  Graduate Students Application Procedure:
  https://www.upei.ca/engineering/graduate-students/prospective-students).

Interested candidates are encouraged to send their applications to Dr. Gaoliang Fang at gfang@upei.ca with their CV and academic transcripts. Please indicate "Application to MSc Position in Advanced Electric Drives_your name" in the email subject line. Only the most suitable candidate will be contacted.