



Department of Electrical and Computer Engineering, Queen's University
Queen's National Scholar: Power Electronics for Smart Micro-Grids

The [Department of Electrical and Computer Engineering \(ECE\)](#) in the Faculty of Engineering and Applied Science at [Queen's University](#) invites applications for a [Queen's National Scholar](#) (QNS) position at the rank of Assistant Professor with specialization in ***Power Electronics for Smart Microgrids***. This is a tenure-track position with a preferred start date of July 1, 2020. Further information on the Queen's National Scholar Program can be found on the website of the Office of the Vice-Principal (Research) at: <http://queensu.ca/vpr/prizes-awards/queens-national-scholars>.

Queen's University is one of Canada's leading research-intensive universities with a global reputation and is a recognized leader in Canadian higher education. The Department of Electrical and Computer Engineering is the home of many globally recognized researchers among the 30 full-time and 7 cross-appointed faculty members with 712 undergraduate students, and 222 graduate students. The Department offers undergraduate, Master's, and Doctoral Programs in electrical and computer engineering and has recently launched a unique entrepreneurial engineering program known as the ECE Innovation Stream, ECEi. The successful candidate will join the world renowned Power Electronics group, which is home to the most advanced state-of-the-art power electronics lab in Canada. [Queen's Center for Energy & Power Electronics Research \(ePOWER\)](#).

Among our top priorities in the Faculty of Engineering and Applied Science is providing opportunities for early career academics to develop distinguished research and exceptional teaching contributions while fostering an environment where all faculty can thrive. To promote on-going success, there is support for course development and delivery that is provided by the Department, the Queen's Centre for Teaching and Learning, and the Faculty of Engineering and Applied Science. Faculty have access to a range of educational technologies including industry-leading instructional design support offered through the Engineering Teaching and Learning Team. Support for faculty to develop strong research programs includes Special Research Grant opportunities, grant writing workshops and review services, and one-to-one mentorship from experienced colleagues.

Position Overview

Candidates must have completed a PhD in Electrical Engineering by the start date of the appointment. Registration as a Professional Engineer in Canada, or eligibility to acquire registration in Ontario, is a requirement, with relevant industrial experience considered an asset.

As a Queen's National Scholar, the ideal candidate will clearly demonstrate the three main attributes:

- 1) Excellence in providing rich and rewarding learning experiences to students;
- 2) Excellence in developing innovative, collaborative or interdisciplinary research programs that align with Queen's priorities; and
- 3) A demonstrated commitment to the principles of equity, diversity, and inclusion.

Further information on teaching and research priorities at Queen's is available in the Queen's Academic Plan, found via: <https://www.queensu.ca/strategicplanning/academic> and the Queen's Strategic Research Plan, found via: <https://www.queensu.ca/vpr/strategic-research-plan>

The main criteria for selection are research and teaching excellence. The successful candidate will provide evidence of high quality scholarly output that demonstrates potential for independent research leading to peer-assessed publications and the securing of external research funding, and active engagement with industry. The candidate must also be able to teach courses at both the undergraduate and graduate levels and demonstrate an ongoing commitment to academic and pedagogical excellence in support of the department's programs. Our programs incorporate innovative approaches to engineering education, with emphasis on professional skills development and building a rapport with students. The successful candidate will be expected to make contributions through service to the department, to the Faculty, to the University, and/or the broader community. The candidate will also demonstrate an ability to work as part of one of our highly-collaborative research teams. The areas of interest are power electronics and its application to smart micro-grids, focusing on: renewable energy systems; smart micro-grids; alternative energy source integration into current power grid, and other emerging applications. Salary will be commensurate with qualifications and experience.

Queen's is one of Canada's most long-standing public research universities and has influenced Canadian higher education since 1841. Located in Kingston, Ontario, Canada, situated just west of the Thousand Islands with convenient proximity to Ottawa, Toronto and Montreal, it is a mid-sized university with more than 23,000 students organized into ten undergraduate, graduate and professional faculties and schools. Queen's combines excellence in undergraduate studies with well-established and innovative graduate programs, all within a dynamic learning environment.

People from across Canada and around the world come to learn, teach and carry out research at Queen's University. Faculty and their dependents are eligible for an extensive benefits package including prescription drug coverage, vision care, dental care, long term disability insurance, life insurance and access to the Employee and Family Assistance Program. You will also participate in a pension plan. Tuition assistance is available for qualifying employees, their spouses and dependent children. Queen's values families and is pleased to provide a 'top up' to government parental leave benefits for eligible employees on maternity/parental leave. In addition, Queen's provides partial reimbursement for eligible daycare expenses for employees with dependent children in daycare. Details are set out in the Queen's-QUFA Collective Agreement. For more information on employee benefits, see [Queen's Human Resources](#).

Additional information about Queen's University can be found on the [Faculty Recruitment and Support website](#). The University is situated on the traditional territories of the Haudenosaunee and Anishinaabe, in historic Kingston on the shores of Lake Ontario. Kingston's residents enjoy an outstanding quality of life with a wide range of cultural, recreational, and creative opportunities. Visit [Inclusive Queen's](#) for information on equity, diversity and inclusion resources and initiatives.

Application Process

The University invites applications from all qualified individuals. Queen's university is committed to employment equity and diversity in the workplace and encourages applications from equity-seeking groups including women, visible minorities, Aboriginal people, persons with disabilities, and LGBTQ persons. All candidates are encouraged to apply; however, in accordance with Canadian Immigration requirements, Canadian citizens and Permanent Residents of Canada will be given priority. To comply with Federal laws, the

University is obliged to gather statistical information about how many applicants for each job vacancy are Canadian citizens / permanent residents of Canada. Applicants need not identify their country of origin or citizenship, however, all applications must include one of the following statements: "I am a Canadian citizen / permanent resident of Canada"; OR, "I am not a Canadian citizen / permanent resident of Canada". Applications that do not include this information will be deemed incomplete.

A complete application consists of:

- a cover letter (including one of the two statements regarding Canadian citizenship / permanent resident status specified in the preceding paragraph);
- a Curriculum Vitae (including a comprehensive list of publications, awards, and grants received);
- a statement of teaching interests and experience (including teaching portfolio);
- a statement of current a prospective research interests;
- a statement of experience with, and commitment to, facilitation and promotion of equity, diversity, and inclusion; and
- the names and contact information of three referees

Applicants are encouraged to send all documents in their application package electronically (in PDF format) to: cheryl.wright@queensu.ca with the subject line "Application for Faculty Position". The deadline to submit applications is December 16, 2019, with interviews held shortly thereafter.

The University will provide support in its recruitment processes to applicants with disabilities, including accommodation that takes into account an applicant's accessibility needs. If you require accommodation during the interview process, please contact Cheryl Wright in the Department of Electrical and Computer Engineering at cheryl.wright@queensu.ca.

Academic staff at Queen's University is governed by a *Collective Agreement* between the Queen's University Faculty Association (QUFA) and the University, which is posted at <https://www.queensu.ca/facultyrelations/faculty-librarians-and-archivists/queens-qufa-collective-agreement>.

Appointments are subject to review and final approval by the Principal. Candidates holding an existing tenure-track or continuing-adjunct appointment at Queen's will not be considered.