



DEPARTMENT OF
**Mechanical and
Materials Engineering**

Department of Mechanical and Materials Engineering

Tenure-Track Faculty Position in Nuclear Materials

The Department of Mechanical and Materials Engineering, Faculty of Engineering and Applied Science at Queen's University invites applications for a Tenure-track faculty position at the rank of Assistant Professor with specialization in Nuclear Materials, with a preferred starting date of July 1, 2017.

Candidates must hold a doctoral degree (or be near completion) in materials science and engineering, physics or a related area. The successful candidate will be an outstanding scientist who will establish an excellent research program and contribute to undergraduate and graduate teaching and supervision. The main criteria for selection are academic 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, as well as strong potential for outstanding teaching contributions at both the undergraduate and graduate levels, and an ongoing commitment to academic and pedagogical excellence in support of the department's programs. Candidates must provide evidence of an ability to work collaboratively in an interdisciplinary and student-centred environment. The successful candidate will be required to make substantive contributions through service to the department, the Faculty, the University, and/or the broader community. Salary will be commensurate with qualifications and experience.

Queen's University is one of Canada's leading research-intensive universities. It is located 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.

The successful candidate will be able to take advantage of the accelerator based irradiation facilities at the Reactor Materials Testing Laboratory, RMTL (www.rmtl.ca) at Queen's, and will also have an opportunity to work with the Canadian Particle Astrophysics Research Centre (CPARC), an ambitious new program funded by the Canada First Research Excellence Fund (CFREF). CPARC (www.cparc.ca) aims to benefit from and strengthen

cross-disciplinary expertise at Queen's between Physics, Engineering Physics and Astronomy, Chemistry, Geological Sciences and Mechanical and Materials Engineering.

The successful candidate is expected to initiate a leading-edge research program, apply for and obtain external funding to support research and graduate students, supervise graduate students and teach undergraduate courses in the core curriculum of Mechanical and Materials Engineering as well as graduate courses in his or her specific areas of research interest. In addition, the successful candidate will be expected to contribute to the development of curriculum and undertake administrative responsibilities through service to the university, faculty, department and profession. Registration as a Professional Engineer in Ontario, or eligibility to acquire registration in Canada, is an essential requirement.

Preference will be given to candidates with an outstanding research record and industrial experience would be considered an asset. *Areas of interest include, but are not limited to, computational modelling of irradiation in materials, experimental testing and characterization of irradiated materials, and materials for nuclear power applications.* Demonstrated experience in creative teaching laboratories and/or innovative teaching methods would be considered an asset.

The Department of Mechanical and Materials Engineering (<http://me.queensu.ca>) at Queen's University has approximately 30 faculty members working in the areas of Materials Engineering, Design & Manufacturing, Biomechanical Engineering, and Energy & Fluid Systems. The Department currently has an enrolment of approximately 480 undergraduate students and over 120 graduate students in the MASc and PhD programs. The Department presently has a very active Nuclear Materials research program with 15 graduate students, led by an *NSERC Industrial Research Chair in Nuclear Materials and Tier 1 Canada Research Chair (CRC) in Mechanics of Materials*. Research in the Department is supported by two other research chairs, *a Tier 1 CRC in Computational Turbulence, and a Queen's Research Chair in Computational Fluid Dynamics*.

The University invites applications from all qualified individuals. Queen's is committed to employment equity and diversity in the workplace and welcomes applications from women, visible minorities, Aboriginal peoples, persons with disabilities and LGBTQ persons. All qualified 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 previous paragraph);
- a current Curriculum Vitae (including a list of publications);
- a statement of research interests;
- a statement of teaching interests and experience (including teaching outlines and evaluations if available), and;
- the names and full contact information of three referees.

Review of applications will begin on **March 15, 2017**, however applications will continue to be accepted until the position is filled. Applicants are encouraged to send all documents in their application packages electronically as PDFs to Karen Richardson at karen.richardson@queensu.ca, although hard copy applications may be submitted to:

Dr. Kevin Deluzio
Chair, Appointments Committee
Department of Mechanical and Materials Engineering
Room 319, McLaughlin Hall
130 Stuart St
Queen's University
Kingston, Ontario
CANADA K7L 3N6

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 Karen Richardson, Department of Mechanical and Materials Engineering at karen.richardson@queensu.ca.

Additional information about Queen's University, which may be of interest to prospective faculty members, can be found at www.queensu.ca/facultyrecruitment.

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