

Tenure-Track Faculty Position in Experimental Particle Astrophysics

The Department of Physics, Engineering Physics & Astronomy at Queen's University invites applications for a Tenure-track faculty position at the rank of Assistant or Associate Professor with a specialization in experimental particle astrophysics, with a preferred starting date of July 1, 2020.

Candidates must have a PhD or equivalent degree completed at the start date of the appointment. 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 a commitment to academic and pedagogical excellence in support of the department's programs. Candidates must provide evidence of an ability to work collaboratively in a diverse, equitable, interdisciplinary and student-centred environment. The successful candidate will be expected to make contributions through service to the department, the Faculty, the University, and/or the broader community. Salary will be commensurate with qualifications and experience.

The ideal candidate will be skilled at particle astrophysics experimentation and will establish a research program that aligns with and/or complements the research goals of the Arthur B. McDonald Canadian Astroparticle Physics Research Institute (MI) and the existing research activities of the Queen's particle astrophysics group.

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.

Queen's University is one of Canada's leading research-intensive universities. The Department of Physics, Engineering Physics & Astronomy at Queen's University has 31 Faculty working in the areas of astronomy and astrophysics, condensed matter physics and optics, engineering and applied physics, and particle astrophysics.

The Queen's particle astrophysics group played a leading role in the Sudbury Neutrino Observatory experiment, which led to the 2015 Nobel Prize shared by Queen's Emeritus Professor Art B. McDonald for the discovery of neutrino oscillations. The group was central in establishing the SNOLAB facility (see www.snolab.ca), and in the recent creation of the Arthur B. McDonald Canadian Astroparticle Physics Research Institute (MI), which is a Canada-wide program funded by the Canada First Research Excellence Fund (CFREF). The institute is aimed at producing world-class science and inspiring the next generation of physicists. Research in the institute includes the development of particle astrophysics experiments and theory, observational and theoretical astrophysics, detector design, and the development of tools and techniques for calibration, material screening and low-level radio-purification. The establishment of the MI has led to the hiring of four new professors in the Department over the past two years. An additional ten MI professors have been hired at Queen's and collaborating institutions across Canada to significantly enhance this world-renowned particle astrophysics program. For further information please see <https://mcdonaldinstitute.ca/>. The Particle Astrophysics Research Group at Queen's has ten faculty members (including a CERC Chair, an IPP Research Scientist, and the Gray Chair in Particle Astrophysics). Their research interests include dark matter physics, neutrino physics, and detector development. The group is involved in the following experiments: DEAP3600, NEWS-G, PICO, SuperCDMS, SNO+, MAJORANA, LEGEND, MINER, IceCube, DarkSide-20k, and KDK (see <http://www.queensu.ca/physics/research-groups/particleastrophysics>).

Providing opportunities for junior faculty to develop a strong teaching and research profile and maintaining an environment where all faculty can thrive is our top priority. Support for course development and delivery is provided by the Department, the Queen's Centre for Teaching and Learning, and the 'First day to First Sabbatical' program of the Faculty of Arts and Science. Support of junior faculty to develop strong research programs includes a significant Research Initiation Grant, grant writing workshops and review services, funding support for graduate students through the Queen's Graduate Award program, and one-to-one mentorship from senior faculty members.

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 as to 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.

In addition, the impact of certain circumstances that may legitimately affect a nominee's record of research achievement will be given careful consideration when assessing the

nominee's research productivity. Candidates are encouraged to provide any relevant information about their experience and/or career interruptions.

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, experience and vision (which may include mentorship, and promotion of equity, diversity and inclusivity in physics); and,
- Three letters of reference to be sent directly to Prof. Robert Knobel at: physhead@queensu.ca.

The first review of applications will begin on **December 15, 2019**, and will continue until a successful candidate is found. Applicants are encouraged to send all documents in their application packages electronically as PDFs to Robert Knobel at physhead@queensu.ca, although hard copy applications may be submitted to:

Prof. Robert Knobel
Department of Physics, Engineering Physics, & Astronomy
Stirling Hall
64 Bader Lane
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 Melissa Balson in the Department of Physics, Engineering Physics & Astronomy, 4mjb5@queensu.ca.

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