Tenure-Track Assistant Professor in Theoretical or Experimental Physics of Quantum Matter

McMaster University is located on the traditional territories of the Haudenosaunee and Mississauga Nations, and within the lands protected by the Dish with One Spoon wampum agreement.

Position Description

The Department of Physics & Astronomy at McMaster University in Hamilton, Ontario, Canada invites applications for a full-time, tenure-track faculty position at the rank of Assistant Professor in theoretical or experimental physics of quantum matter beginning July 1, 2021.

Candidates must have completed a PhD in a relevant discipline by the start date of the appointment, must demonstrate a vibrant program of excellent research, and show the potential for high quality teaching. The successful candidate will be expected to become an outstanding scientist with a record of research excellence in experimental or theoretical quantum condensed matter physics, broadly defined; to excel in teaching at the undergraduate and graduate levels; to make substantive service contributions to the McMaster community; and to contribute actively to the goals of equity, diversity and inclusivity at McMaster.

The Department of Physics & Astronomy presently consists of 27 faculty and approximately 90 graduate students, with strengths in astrophysics, soft matter/biophysics, medical physics, theoretical high-energy physics and condensed matter physics. Facilities related to quantum matter research at McMaster include neutron scattering at the McMaster reactor (https://nuclear.mcmaster.ca/facility/nuclear-reactor/), state-of-the-art crystal growth and characterization labs in the Centre for Crystal Growth, and the Canadian Centre for Electron Microscopy (https://ccem.mcmaster.ca/) and a high performance computing cluster (SHARCNET). A number of faculty members have connections with the nearby Perimeter Institute for Theoretical Physics (https://www.perimeterinstitute.ca/), and many are involved in the wider effort in materials research at McMaster through the Brockhouse Institute for Materials Research (https://brockhouse.mcmaster.ca/). More information about the Department can be found at: www.physics.mcmaster.ca/.

McMaster University is a globally renowned institution of higher learning and a research community committed to advancing human and societal health and well-being. Our focus on collaboratively exchanging ideas and approaches makes us uniquely positioned to pioneer ground-breaking solutions to real-world problems leading to a Brighter World. The Faculty of Science works to create global impact by advancing scientific discovery and knowledge, and

promoting greater understanding. Our innovative, interdisciplinary approach generates new methods and insights, results, and lasting change.

Commitment to Inclusive Excellence

The diversity of our workforce is at the core of our innovation and creativity and strengthens our research and teaching excellence. In keeping with its Statement on Building an Inclusive Community with a Shared Purpose, McMaster University strives to embody the values of respect, collaboration and diversity, and has a strong commitment to employment equity.

The University seeks qualified candidates who share our commitment to equity and inclusion, who will contribute to the diversification of ideas and perspectives, and especially welcomes applications from First Nations, Métis and Inuit peoples, members of racialized communities ("visible minorities"), persons with disabilities, women, persons who identify as 2SLGBTQ+.

We invite all applicants to complete a brief Diversity Survey, which takes approximately two minutes to complete, through McMaster's application submission portal. All questions are voluntary, with an option to decline to answer. All information collected is confidential and will be used to support efforts to broaden the diversity of the applicant pool and to promote a fair, equitable and inclusive talent acquisition process.

Job applicants requiring accommodation to participate in the hiring process should contact the Office of the Dean, Faculty of Science at baileyd@mcmaster.ca to communicate accommodation needs.

How to Apply

Complete applications must be made online at https://hr.mcmaster.ca/careers/current-opportunities/ (Faculty Positions, Job **35626**) by the deadline to the attention of Dr. Graeme Luke, Professor & Chair, Department of Physics & Astronomy, McMaster University, 1280 Main Street West, Hamilton, Ontario, L8S 4K1.

A complete application consists of:

- a cover letter (including a statement regarding whether the applicant has Canadian citizenship/permanent resident status (see below))
- a current Curriculum Vitae, and a list of representative publications
- a statement of research interests (2-page maximum)
- a statement of teaching philosophy, interests and experience (2-page maximum)
- a statement of experience and plans for advancing equity, diversity and inclusion in post-secondary education, community-based or other professional settings (2-page maximum)
- three (3) letters of reference sent directly by your referees to Dr. Graeme Luke, Department Chair, luke@mcmaster.ca.

- Guide the referees to comment on your demonstrated scholarly excellence and research potential in the field of quantum condensed matter; your demonstrated ability and potential to successfully teach undergraduate students and supervise graduate students; your ability to work in a collaborative and interdisciplinary environment; and your potential for contributions to university and community service.

Review of complete applications will begin January 29, 2021 and continue until the position is filled. All applicants will receive an on-line, system-generated confirmation of receipt of their application; however, only short-listed applicants will be contacted for interviews. Please be advised that any full-time, permanent faculty member of the Department can request confidential access to the application materials, including the reference letters. Progressive policies are in place to assist faculty members achieve a work-life balance. Salary will be commensurate with qualifications and experience.

All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority. To comply with the Government of Canada's reporting requirements, the University is obliged to gather information about applicants' status as either Canadian citizens or Permanent Residents of Canada. Applicants need not identify their country of origin or current citizenship; however, all applications, as stated above, MUST include one of the following statements in their application package: "I am/am not a citizen or permanent resident of Canada." Applications that do not include this information will be deemed incomplete.