Tenure-Track Faculty Position in Mathematical and Theoretical Physics

Department of Applied Mathematics, University of Waterloo

The Department of Applied Mathematics at the University of Waterloo invites applications for a tenure-track faculty position in Mathematical and Theoretical Physics. The position is at the Assistant Professor level. In exceptional cases, an appointment at the rank of Associate or Full Professor may be considered.

We are seeking an outstanding and creative researcher with wide-ranging scientific interests. Specific **areas of interest** include: (1) quantum information; (2) general relativity, quantum field theory, quantum gravity and cosmology; (3) interdisciplinary connections with machine learning and its foundations.

We are particularly interested in candidates who combine depth in their own research area with breadth of curiosity and a collaborative spirit, and who wish to engage with colleagues across diverse research communities—from theoretical physics to applied mathematics, and from quantum information to AI.

The new faculty member will benefit from and contribute to a uniquely rich scientific eco-system, which includes Waterloo's Institute for Quantum Computing, the Department of Physics and Astronomy, and the nearby Perimeter Institute for Theoretical Physics.

The successful candidate will be expected to develop an internationally recognized research program, supervise graduate students, and teach at both the undergraduate and graduate levels.

Review of applications will start on **January 31, 2027,** and applications will be accepted until the position is filled.

Interested candidates must have a PhD or equivalent in Applied Mathematics, Theoretical Physics or a related field. The salary range for this position is $120,000-$160,000CAD. Salary will be commensurate with qualifications, experience, and research record. Negotiations beyond this salary range will be considered for exceptionally qualified candidates. The effective date of appointment is July 1, 2027. Interested individuals should apply using AcademicJobsOnline (https://academicjobsonline.org/ajo/jobs/33497). Applications should include a cover letter, a curriculum vitae, research and teaching statements, teaching evaluation summaries (if available), up to three reprints/preprints, and a brief statement describing their approach to fostering an equitable and inclusive environment that supports a diverse academic community. In addition, applicants should arrange to have at least three reference letters submitted on their behalf.

The **Department of Applied Mathematics** is one of four departments that, together with the School of Computer Science, comprise the Faculty of Mathematics at the University of Waterloo. With more than 300 faculty members, 7,000 undergraduate students and more than 1,000 graduate students in mathematics and computer science, Waterloo's Faculty of Mathematics is a global powerhouse in research, education and innovation. The Applied Mathematics department has 30 regular faculty members, over 100 graduate students, and strong undergraduate programs

in applied mathematics, mathematical physics, and scientific machine learning. Research in the department is enhanced by close links to interdisciplinary institutes including the Perimeter Institute for Theoretical Physics, the Waterloo Centre for Astrophysics, the Waterloo Data and Artificial Intelligence Institute, the Centre for Computational Mathematics, and the Institute for Quantum Computing. More information about the department can be found at https://uwaterloo.ca/applied-mathematics/.

The University of Waterloo understands the impact that career interruptions (e.g. parental leave, leave due to illness) can have on a candidate's achievement and encourages potential candidates to explain in their application the impact this may have on their record; this information will be taken into careful consideration during the assessment process.

If you have any questions regarding the position, the application process, assessment process, or eligibility, please contact Alicia Hanbidge (amchairasst@uwaterloo.ca) or Prof. Hans De Sterck (hdesterck@uwaterloo.ca), Chair, Department of Applied Mathematics, University of Waterloo, Canada.

The University of Waterloo is committed to accessibility for persons with disabilities. If you have any application, interview or workplace accommodation requests, please contact Alicia Hanbidge (amchairasst@uwaterloo.ca).

The University values the diverse and intersectional identities of its students, faculty, and staff. The University regards equity and diversity as an integral part of academic excellence and is committed to accessibility for all employees. The University of Waterloo seeks applicants who embrace our values of equity, anti-racism and inclusion. As such, we encourage applications from candidates who have been historically disadvantaged and marginalized, including people with disabilities and applicants who identify as Indigenous peoples (e.g., First Nations, Métis, Inuit/Inuk), Black, racialized, women and/or 2SLGBTQ+.

The University of Waterloo acknowledges that much of our work takes place on the traditional territory of the Neutral, Anishinaabeg and Haudenosaunee peoples. Our main campus is situated on the Haldimand Tract, the land granted to the Six Nations that includes six miles on each side of the Grand River. Our active work toward reconciliation takes place across our campuses through research, learning, teaching, and community building, and is centralized within our Indigenous Initiatives Office (https://uwaterloo.ca/human-rights-equity-inclusion/indigenousinitiatives).

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Three reasons to apply: https://uwaterloo.ca/faculty-association/why-waterloo.

https://academicjobsonline.org/ajo/jobs/33497