

Assistant Professor, Theoretical Physics

Department of Physics and Astronomy, Faculty of Science, York University

The Department of Physics and Astronomy at York University invites highly qualified applicants for a full-time professorial stream tenure-track appointment in theoretical physics at the Assistant Professor level, to commence July 1, 2023. Applicants should be theorists with an ongoing program of research in one or more of the following areas: elementary particle physics, astro-particle physics, and cosmology.

The Department of Physics and Astronomy has strong research groups in high energy physics, astrophysics, atomic/molecular/optical physics (including laser physics), and biophysics. Faculty regularly engage and collaborate with researchers at CERN, the Canadian Institute for Theoretical Astrophysics, Fermilab, the Fields Institute, J-PARC, the Perimeter Institute for Theoretical Physics, and TRIUMF.

Candidates' research should complement the Department's existing theoretical research (e.g., early universe, QCD, astro-particle, or BSM physics), experimental high energy physics programs (e.g., ATLAS, T2K, DUNE), or astrophysics programs (e.g., galaxy formation and evolution, the CMB, large-scale structure, supermassive black holes). The successful candidate will be expected to develop a strong, externally funded research program, supervise graduate students, foster research linkages within and beyond York, and play an active role in widely promoting York's endeavours in research and education.

Further information about the Department and York University can be found at <https://www.yorku.ca/science/physics/>.

To guarantee full consideration, completed applications should be received by Monday, November 21, 2022.

Candidate Qualifications:

- **Degree:** A PhD in Physics or a related discipline is required along with relevant postdoctoral experience.
- **Research Expertise:** Research excellence of a recognized international calibre in elementary particle physics, astro-particle physics, and/or cosmology, as evident in: the research statement; innovative and impactful peer-reviewed publications (including forthcoming publications) with significant journals in the field; research presentations at conferences and/or seminars; awards and accolades; and strong recommendations from referees of standing.
- **Teaching:** Commitment to excellence in teaching and mentorship (including the promise of excellence) at both the undergraduate and graduate levels, as evident in: the teaching statement; teaching and mentorship accomplishments; ideas for pedagogical innovations (e.g., high-priority areas such as experiential education and technology enhanced learning); discussion of teaching and/or mentorship in letters of reference; and suitability for graduate-level supervision.

Hiring Policies:

- Salary will be commensurate with qualifications and experience.
- All York University positions are subject to budgetary approval.
- All qualified candidates are encouraged to apply; however, Canadian citizens, permanent residents and Indigenous peoples in Canada will be given priority.
- York University has a policy on [Accommodation in Employment for Persons with Disabilities](#) and is committed to working towards a barrier-free workplace and to expanding the accessibility of the

workplace to persons with disabilities. Candidates who require accommodation during the selection process are invited to contact Professor Sean Tulin, the Chair of the Search Committee, at stulin@yorku.ca.

- York University is an Affirmative Action (AA) employer and strongly values diversity, including gender and sexual diversity, within its community. The AA Program, which applies to women, members of visible minorities (racialized groups), Aboriginal (Indigenous) people, persons with disabilities, and those who self-identify as 2SLGBTQ+, can be found at www.yorku.ca/acadjobs or by calling the AA line at 416-736-5713. Applicants wishing to self-identify as part of York University's Affirmative Action program can do so by downloading, completing and submitting [this voluntary self-identification form](#).
- York acknowledges the potential impact that career interruptions can have on a candidate's record of research and other achievement and encourages applicants to explain in their application the impact that career interruptions may have had.

Application Components:

- Required components: 1) cover letter (one or two pages); 2) current CV, including publication list; 3) three-page statement of current and future research interests; 4) one-page teaching philosophy and experience statement; 5) at least three letters of reference; 6) work status declaration form (see next).
- Candidates must download, complete, and submit a [Work Status Declaration form](#). This is a mandatory form, and no application will be considered without it.
- Optional component: the voluntary AA self-identification form (see Hiring Policies).
- Submit all application materials electronically at <https://academicjobsonline.org/ajo/jobs/22590>. Any queries about the position should be directed to Professor Sean Tulin, the Chair of the Search Committee, at stulin@yorku.ca.

University Context:

- York is a leading international teaching and research university, and a driving force for positive change. Empowered by a welcoming and diverse community with a uniquely global perspective, we are preparing our students for their long-term careers and personal success. Together, we can make things right for our communities, our planet and our future.
- York is located in Toronto, Canada's largest city and one of the world's most diverse. In 2022, Forbes named Toronto one of the [Ten Best Cities to Live](#). York is accessible from downtown Toronto by subway.