



**Assistant Professor in Experimental Neutrino Physics**  
**Department of Physics and Astronomy, Faculty of Science**

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The Department of Physics and Astronomy in the Faculty of Science at York University, and the Fermi National Accelerator Laboratory (Fermilab) near Chicago, USA invites highly qualified applicants for an Assistant Professor position in Experimental Neutrino Physics. This is a tenure-track appointment to the professorial stream with a start date of January 1, 2024 or as soon as possible thereafter.

This is a joint appointment between the Department of Physics and Astronomy and Fermilab. The joint appointment will have a duration of five years, with the possibility of extending the joint status by mutual agreement between the two institutions. In the event that the joint appointment status is not extended, the Joint Appointee will revert to a regular academic appointment at York University. They will be provided with office space, research space, and associated resources both at York University and Fermilab.

At Fermilab, the position would be that of Associate Scientist. York University shall serve as the home institution. During the period of the joint appointment, the Joint Appointee will be expected to devote at least 50% of their research time to research activities related to the development of the Long-Baseline Neutrino Facility (LBNF) and/or the Deep Underground Neutrino Experiment (DUNE). In 2018, the first such joint appointment was made; this position will strengthen the existing York effort in LBNF and DUNE.

The [Department of Physics and Astronomy](#) at York has strong research groups in High Energy Physics, Astronomy/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, the Perimeter Institute for Theoretical Physics, J-PARC, and TRIUMF.

[Fermilab](#), the premier particle physics and accelerator laboratory in the United States, has been at the forefront of particle physics for more than 50 years. Fermilab's 1,800 employees, including engineers, scientists, technicians, and administrative professionals, are advancing knowledge for the benefit of humankind. This research involves building world-leading accelerators and detectors to conduct some of the most advanced particle physics experiments possible, as well as collecting and analyzing the data from those experiments with some of the most powerful computers in the world. Fermilab is located on 6,800-acre prairie 35 miles outside Chicago, a treasure that has been designated a National Environmental Research Park.

**Candidate Qualifications:**

- **Degree:** PhD in Physics, along with relevant postdoctoral experience is required.

- **Scholarship:**
  - A coherent and well-articulated program of research and specialization in experimental particle physics.
  - A record or promise of generating innovative, substantive, rigorous, and as appropriate, externally funded research.
  - A record or promise of making influential contributions and demonstrating excellence in the field (e.g., research statement, a record of publications with significant journals in the field, presentations at conferences, and strong recommendations from referees of high standing).
- **Teaching:**
  - A record or promise of excellence in teaching and dedication to students in physics.
  - Suitability for prompt appointment to the Faculty of Graduate Studies, given that the position will involve graduate teaching and supervision.
- **Additional:** 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.

#### **Hiring Policies:**

- Salary will be commensurate with qualifications and experience.
- All York University positions are subject to budgetary approval.
- York welcomes and employs scholars from all over the world. All qualified candidates are encouraged to apply; however, Canadian citizens, permanent residents and Indigenous peoples in Canada will be given priority.
- York has a policy on [Accommodation in Employment for Persons with Disabilities](#) and is committed to working towards a barrier-free workplace and expanding the accessibility of the workplace to persons with disabilities. Applicants who require accommodation are invited to contact Professor Deborah Harris, Chair of the Search Committee, at [deborahh@yorku.ca](mailto:deborahh@yorku.ca).
- York is an Affirmative Action (AA) employer and strongly values diversity, including gender and sexual diversity, in its community. Details of the AA Program, which applies to women, members of racialized groups, Indigenous peoples, persons with disabilities and those who identify as 2SLGBTQ+, can be found [here](#) or by contacting Christal Chapman, EDI Program Manager ([chapman7@yorku.ca](mailto:chapman7@yorku.ca); 416-736-5713).

#### **Application Process:**

- Due date for completed applications: **August 18, 2023**
- Required materials: 1) current CV; 2) one-page cover letter; 3) a two-page summary of key research contributions and future research plans; 4) a one-page statement about teaching philosophy and experience. Note that applicants who are invited to interview will be asked to arrange for three letters of reference to be submitted on their behalf. York acknowledges the potential impact that career interruptions may have on a candidate's record of research and other achievements. We encourage applicants to include in their applications a description of the impact of any such career interruptions.

- Provide required information regarding your Canadian work status and optional self-identification for Affirmative Action purposes at this link: [YUWorkAA](#).
- Direct questions about the position to Professor Deborah Harris at [deborahh@yorku.ca](mailto:deborahh@yorku.ca).
- **Submit materials:** <https://academicjobsonline.org/>

#### **Learn More About York:**

- York University generates and shares knowledge through our research, teaching and engagement with communities around the world. The [2023-2028 Strategic Research Plan](#) showcases the depth, breadth and ambition of research at York.
- York's commitments to social justice are laid out in our [Decolonizing, Equity, Diversity and Inclusion Strategy](#), the [Framework & Action Plan on Black Inclusion](#) and the [Indigenous Framework for York University](#).
- Follow the activities and accomplishments of York's faculty, students and staff on [YFile](#).

York University acknowledges its presence on the traditional territory of many Indigenous Nations. The area known as Tkaronto has been care taken by the Anishinabek Nation, the Haudenosaunee Confederacy, and the Huron-Wendat. It is now home to many First Nation, Inuit and Métis communities. We acknowledge the current treaty holders, the Mississaugas of the Credit First Nation. This territory is subject of the Dish with One Spoon Wampum Belt Covenant, an agreement to peaceably share and care for the Great Lakes region.