



ATLAS Postdoctoral Fellow Position in Experimental High Energy Physics

The York University High Energy Physics group (<https://www.yorku.ca/science/research/hep/>) has an opening for a postdoctoral fellow to work on the ATLAS experiment at the CERN LHC.

The York ATLAS group currently comprises 1 professor, 1 postdoc, and 2 graduate students. The group leads the search for magnetic monopoles in pp collisions. The ATLAS Run 2 monopole search analysis publication was highlighted in the Jan/Feb 2024 CERN Courier.

The York ATLAS group is part of a broader Canadian effort in the construction of the inner tracker (ITk) strip detector as part of the ATLAS Phase-II upgrade. The successful candidate will have the unique opportunity to collaborate with the University of Toronto ATLAS group and our industrial partner, Celestica, Inc., on sensor module production and testing.

Job description:

- Playing a leading role in the ATLAS Run 3 magnetic monopole pp search analysis.
- Option to contribute to the production and testing of ITk silicon sensor modules.
- Performing ATLAS operations tasks, such as control room and data quality shifts.
- Providing supervisory support to York undergraduate and graduate students.

Qualifications required:

- A PhD in experimental particle physics awarded within the past five years.
- Excellent physics analysis skills, strong programming background in C++ and python, and ability to work in small and large collaborations.
- Expertise in long-lived exotic particle searches is an asset.
- Detector and laboratory skills are an asset.

Details of the position:

- The successful candidate will be based at York University in Toronto, but occasional travel within Canada and to Europe is expected.
- The initial full-time appointment is for one year, potentially renewable yearly for up to four years.

Application procedure:

- Send a cover letter, a Curriculum Vitae and a two-page research statement to Professor Wendy Taylor at taylorw@yorku.ca by **May 15, 2024**.
- Arrange for two letters of recommendation to be sent directly to taylorw@yorku.ca.
- The review of applications will begin **May 15, 2024**, but applications will be accepted **until the position is filled**.

Inquiries should be directed to Professor Wendy Taylor at taylorw@yorku.ca.

Department of Physics and Astronomy
York University
Petrie Science and Engineering Building
4700 Keele St, Toronto, ON Canada M3J 1P3