The York University High Energy Physics group has an opening for a postdoctoral fellow to work on the CERN LHC ATLAS experiment.

The York ATLAS group currently comprises 2 faculty, 1 postdoc, 4 graduate and 3 undergraduate students. The physics interests of the group span exotic, SUSY and top quark physics, including searches for long-lived particles and magnetic monopoles and precision measurements of top quark properties. The group also has expertise in advancing physics analysis with machine learning techniques.

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 take a supporting role in this project, in collaboration with the University of Toronto ATLAS group and our industrial partner, Celestica, Inc.

Job description:

- Leading an analysis within the rich ATLAS Run 2 physics program.
- Performing tasks associated with the production of ITk silicon sensor modules (~25-50% FTE).
- 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 a large collaboration.
- Enthusiasm to participate in the ITk project. Detector and laboratory skills are an asset.

Details of the position:

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

Application procedure:

- Send a cover letter, a Curriculum Vitae and a two-page statement of research interests to Professor Wendy Taylor at taylorw@yorku.ca.
- The review of applications will begin June 11, 2021 but applications will be accepted until the position is filled.
- Long-listed candidates will be invited to arrange for two letters of recommendation to be sent within two weeks.

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