

November 15, 2022

The Group of Particle Physics of University of Montreal invites applications for a post-doctoral researcher position in the ATLAS group. The position will be based at CERN.

The successful candidate is expected to contribute to the wide research program taking place within the ATLAS-Montreal group. This includes the operations of the ATLAS experiments at CERN as well as the detector upgrade for the High-Luminosity LHC in the next decade. In particular, the ATLAS-Montreal group is involved in the design, construction and commissioning of the interlock safety system of the ATLAS tracker upgrade, called ITk.

The ATLAS-Montreal group is strongly involved in machine learning applications for the analysis of the LHC data, and is benefitting from the fact that Montreal is a global leader for the development of artificial intelligence. Current fields of application include electron identification and searches for new physics, such as diboson resonances, supersymmetry and general searches using anomaly detection. The ATLAS-Montreal group is also leading the usage of Timepix detectors to measure the radiation field in the ATLAS cavern and the LHC luminosity. The successful candidate will be expected to play a leading role in one or several aspects of the research program described above. No prior knowledge in machine learning is required.

Applicants must have a recent Ph.D. in particle physics, or equivalent experience, and demonstrate the ability to work in a research environment and prepare research results for publication and presentation at scientific meetings. The appointment is for an initial period of two years, with a possibility to be renewed, and is expected to be based at CERN.

The candidate should send a CV, a brief description of research experience and interests, a list of publications, and arrange to have 2-3 letters of recommendation sent to:

Professor Jean-François Arguin (jean-francois.argin@umontreal.ca)

Applications received by February 1, 2023 will receive full consideration. The expected starting date is April 1st, 2023, but is negotiable. All qualified candidates are encouraged to apply; however, in accordance with Canadian Immigration requirements, Canadians and permanent residents will be given priority in case of equal qualification.