Postdoctoral Fellow
Data-science applied to astrophysics and particle astrophysics
Department of Physics, Engineering Physics & Astronomy
Queen’s University

The Arthur B. McDonald Canadian Astroparticle Physics Research Institute at Queen's University (https://mcdonaldinstitute.ca) invites applications for a postdoctoral position in the application of data science to particle astrophysics and astrophysics. The successful candidate will have an interest and expertise in the use of advanced statistical techniques, such as machine learning, to model data from particle astrophysics experiments and/or observational astronomy. The position will have a specific focus on research in neutrino physics, the nature of dark matter, and multi-messenger astronomy. The successful candidate will collaborate with members of the Queen's Particle Astrophysics group and serve as a central point of contact for the coordinated implementation of data science techniques across the broad range of experiments in which the group participates. The successful candidate will also contribute to activities in the Department that are related to machine learning and data science.

Candidates must have completed a Ph.D. in Physics or Astronomy by the start date of the appointment and have demonstrated potential for excellence in research in particle physics or astrophysics and in data science. Candidates with a doctorate in Computer Science or Mathematics/Statistics and a background in physics or astrophysics will also be considered.

The original appointment will be for two years, and salary will be commensurate with qualifications and experience. The successful candidate will also receive a small discretionary research bursary to cover costs such as travel to conferences.

Applicants should apply through Academic Jobs Online https://academicjobsonline.org/ajo/jobs/12746 and submit:

- Cover letter
- Statement of research interests and experience
- CV with list of publications
- 3 letters of reference

The University acknowledges the potential impact that legitimate career interruption can have on a record of research. If applicable, the University encourages candidates to explain within their application the impact that career interruption has had on their record.

The University invites applications from all qualified individuals. Queen’s is committed to employment equity and diversity in the workplace and welcomes applications from women, visible minorities, Aboriginal peoples, persons with disabilities, and LGBTQ persons.

Questions about the position can be addressed to Prof. Larry Widrow (widrow@queensu.ca) or Prof. Ryan Martin (ryan.martin@queensu.ca). Review of applications will begin on 10 January 2019.