Physics
UNIVERSITY OF TORONTO

Assistant Professor – Dark Matter/Neutrino Physics

The Department of Physics in the Faculty of Arts & Science at the University of Toronto invites applications for a full-time tenure stream position in the area of Dark Matter/Neutrino Physics. The appointment will be at the rank of Assistant Professor, and will commence on July 1, 2020, or shortly thereafter.

Applicants must have earned a PhD degree in Physics by the time of appointment, or shortly thereafter, with a demonstrated record of excellence in both research and teaching. We seek candidates with expertise in dark matter and/or neutrino physics, and whose research and teaching interests complement existing strengths of the Department of Physics. In particular, we are seeking an experimentalist whose research is complementary to the University's activities in high energy physics, observational astrophysics, and cosmology, and is well-aligned with the research goals of the Arthur B. McDonald Canadian Astroparticle Physics Research Institute, a national program supported by the Canada First Research Excellence Fund.

The successful candidate will be expected to mount an independent, innovative, internationally competitive, and externally funded research program; to have a strong commitment to undergraduate and graduate teaching; and to contribute to the enrichment of undergraduate and graduate programs in the Department.

Particle physics is an area of great research strength in the Department of Physics, and includes both experimental and theoretical research groups. The Department has a leading role in the ATLAS experiment at CERN, and is a member of the McDonald Institute. A major goal of the McDonald Institute is to build a transnational research team contributing to the many diverse requirements of a world-leading particle astrophysics research program, including the SNOLAB experimental program. The successful candidate will be expected to interact and collaborate within the Department and within the McDonald Institute.

Candidates must provide evidence of research excellence, indicative of a developing research program that is at the highest international level, as demonstrated by a record of publications in top-ranked and field-relevant academic journals or forthcoming publications meeting high international standards, a forward-looking research statement, presentations at significant conferences, awards and accolades, and strong letters of endorsement from referees of high international standing.

Excellence in teaching should be demonstrated through teaching accomplishments as described in the teaching dossier, including a statement of teaching philosophy, evidence of superior performance in teaching-related activities submitted with the application, and strong letters of reference. Evidence of superior performance in teaching-related activities may include experience as a teaching assistant, experience in curriculum development, sample syllabi, teaching evaluations, participation in delivering successful workshops or seminars, student mentorship, or publications and/or presentations related to pedagogical innovation.

Salary will be commensurate with qualifications and experience.

In addition to collaborations with existing groups in experimental and theoretical high-energy physics and with the McDonald Institute, the successful candidate will have the opportunity to collaborate with researchers in related fields in the Department of Physics, the Department of Astronomy and Astrophysics, the Dunlap Institute for Astronomy and Astrophysics, and the Canadian Institute for Theoretical Astrophysics.

For more information about the Department of Physics, please visit us at https://www.physics.utoronto.ca/. Information about experimental and theoretical high-energy research in the Department of Physics can be found at http://www.physics.utoronto.ca/research/experimental-particle-physics and http://www.physics.utoronto.ca/research/theoretical-high-energy-physics. Information about the McDonald Institute partners can be found at https://mcdonaldinstitute.ca/network/partner-institutes/.

All qualified candidates are invited to apply by clicking the 'Apply Online' link at: https://utoronto.taleo.net/careersection/10050/jobdetail.ftl?job=1904623

Applicants must submit a cover letter; a current curriculum vitae; a research statement outlining current and future research interests; a recent writing sample (of no more than 15 pages); and a teaching dossier to include a teaching statement that describes teaching philosophy and teaching experience, and evidence of excellent performance in relevant teaching-related activities as listed above.

Applicants must also arrange to have three letters of reference sent directly by the referee via email (on letterhead and signed) to the Department of Physics Chair, Kimberly Strong, at jobs@physics.utoronto.ca, by the closing date.

Submission guidelines can be found at http://uoft.me/how-to-apply. We recommend combining attached documents into one or two files in PDF/MS Word format. If you have questions about this position, please contact chairsec@physics.utoronto.ca.

All application materials, including reference letters, must be received by the **closing date of January 15, 2020**.

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous/Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas.

As part of your application, you will be asked to complete a brief Diversity Survey. This survey is voluntary. Any information directly related to you is confidential and cannot be accessed by search committees or human resources staff. Results will be aggregated for institutional planning purposes. For more information, please see http://uoft.me/UP.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.