



University
of Regina



Faculty of
Science



Arthur B. McDonald
Canadian Astroparticle Physics Research Institute

M.Sc. Position in Particle Physics

The neutrino physics group of the Department of Physics at the University of Regina invites applications for students interested in pursuing a M.Sc. position in experimental particle physics. The position is specifically for work on the HALO-1kT experiment for supernovae neutrino detection.

The neutrino group is a participant in the T2K long baseline neutrino oscillation experiment in Japan, and is currently involved in the development of its successor, the Hyper-Kamiokande experiment. The group is also involved in the future Emphatic experiment at the Fermi National Accelerator Facility and the HALO-1kT experiment.

The Halo-1kT detector will be an opportunistic neutrino detector dedicated for supernova neutrinos, complementary to other neutrino detectors around the world. It will help understand the physics of neutrinos, the physics processes in a collapsing supernova, which produce enormous amount of neutrinos, and in general will expand our knowledge about astrophysics.

Candidates with interest in particle physics, and more specifically in neutrino physics, are invited to apply. The successful candidate will work on detector simulations and on hardware tasks connected with the helium detectors for the experiment.

This position is funded by the Arthur B. McDonald Canadian Astroparticle Physics Research Institute.

For the University of Regina graduate studies application procedure please visit:

<https://www.uregina.ca/science/physics/grad-students/index.html>

and

<https://www.uregina.ca/gradstudies/future-students/index.html>

Please direct all questions regarding the position to:

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