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Canada Excellence Research Chair in Experimental Particle Astrophysics Queen's University, Kingston, Ontario, Canada

Applications are now invited for a Canada Excellence Research Chair (CERC) in Particle Astrophysics in the Department of Physics, Engineering Physics, and Astronomy. The CERC program awards world-renowned researchers and their teams up to \$10 million over seven years to establish ambitious research programs at Canadian universities. Information about the program can be found at <http://www.cerc.gc.ca/hp-pa-eng.shtml>. The position will be at the rank of Professor; the appointee will be a distinguished scientist with an international reputation for research excellence in experimental particle astrophysics and a demonstrated record of teaching excellence. The salary offered will be commensurate with qualifications and experience.

The world-leading SNOLAB underground research facility (www.snolab.ca) provides an excellent opportunity for frontier research work in the field of particle astrophysics. Faculty members in the current Queen's Particle Astrophysics group (<http://sno.phy.queensu.ca/group/>) were extensively involved in the very successful Sudbury Neutrino Observatory (SNO) experiment and in the establishment of SNOLAB, and are leading members of the PICASSO, DEAP, and SuperCDMS dark matter experiments and the SNO+ experiment studying neutrino-less double beta decay and solar, geo, and supernova neutrinos. The group also has close ties with researchers in the Astronomy group at Queen's.

The SNOLAB scientific program is identified in the Queen's Strategic Research Plan as an important priority for the University and Queen's is committed to maintaining leadership in this field.

Candidates should submit a detailed curriculum vitae, a statement of research and teaching interests, and the names of three referees including their contact information to:

Dr. Geoff Lockwood, Head
Department of Physics, Engineering Physics & Astronomy
Queen's University
Kingston, Ontario, Canada K7L 3N6
E-mail: lockwood@physics.queensu.ca
Tel: (613) 533-6000 x 74797 Fax: (613) 533-6463

The review of applications will begin on April 10, 2013 and will continue until the position is filled. The preferred starting date is July 1, 2014.

Queen's University is one of Canada's leading research-intensive universities. The Department of Physics, Engineering Physics, and Astronomy has 31 faculty members working in the areas of astronomy and astrophysics, condensed matter physics and optics, engineering and applied physics, medical physics, and particle astrophysics (<http://www.physics.queensu.ca/>). The university is situated on traditional Anishinabe and Haudenosaunee territories on the shores of Lake Ontario, near the mouth of the St. Lawrence River and the Thousand Islands, and is considered a top destination for sailing. In 2012, Kingston ranked as one of the best places to live in Canada.

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 people, persons with disabilities, and persons of any sexual orientation or gender identity.

All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents of Canada will be given priority. The academic staff at Queen's is governed by a collective agreement between QUFA and the University, which is posted at <http://www.queensu.ca/provost/faculty/facultyrelations/qufa/collectiveagreement.html>.



TRIUMF

HEAD OF ACCELERATOR OPERATIONS

<http://www.triumf.ca/>

Located on the south campus of the University of British Columbia, TRIUMF is Canada's National Laboratory for Particle and Nuclear Physics, and one of the leading accelerator centers worldwide exploring the structure of matter with a variety of accelerated particle beams. The 500 MeV cyclotron provides the primary proton beams that are used for the majority of TRIUMF's research programs, which consist of molecular and materials science, nuclear medicine, and nuclear physics and astrophysics within our ISAC facility. ISAC is a rare isotope beam (RIB) production and acceleration facility with the highest power driver beam in the world, producing some of the most intense RIBs of certain species. Over 1000 researchers from around the world use the accelerator-based facilities at TRIUMF. We are currently constructing the Advanced Rare Isotope Laboratory (ARIEL) which will expand TRIUMF's (and Canada's) capabilities to produce and study isotopes for physics and medicine. ARIEL will include a new high power superconducting electron linear accelerator as a driver for the production of rare isotopes via photo fission, an additional proton beam line, and two new targets, for the simultaneous delivery to three users.

Our vision is to create a world-class Accelerator Operations and Beam Delivery program as we incorporate the new ARIEL facility into the TRIUMF beam delivery infrastructure. In support of this, a new position is being created which will be key to implementing the vision while ensuring beam delivery on time with highest reliability and efficiency, and meeting user specifications for cutting-edge experiments. The goal is to evolve beam delivery to the highest standards across all TRIUMF accelerators from a common control room and uniform operations environment.

We are now inviting applications from qualified candidates to fill the position of **Head of Accelerator Operations**. Your primary focus will be to provide technical leadership for the operation of the Accelerator Complex, which comprises the 500 MeV Cyclotron and the primary proton beamlines, the Rare Isotope Beams production and acceleration in ISAC, including an RFQ, a DTL and the ISAC-II SRF Heavy Ion Linac, the TR13 cyclotron, and in the near future, the SRF e-linac and ARIEL RIB facility. Unique to this position is the opportunity to support your own research activities through research grants obtained from funding agencies in Canada and abroad, with the possibility of an adjunct appointment with one of TRIUMF's member universities.

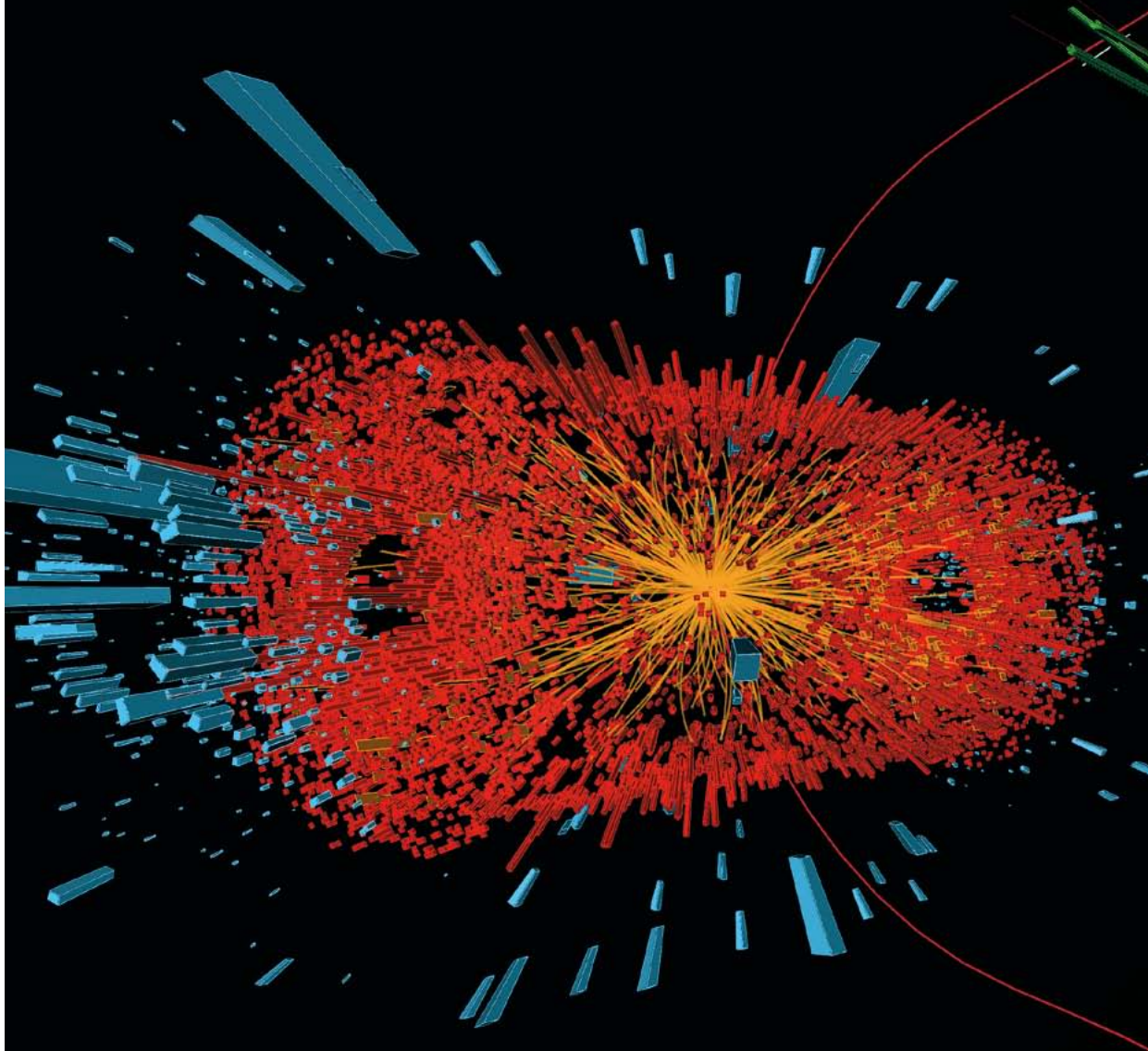
You have a previously established international reputation as an expert in accelerator technology and/or accelerator operations with a functional knowledge of beam dynamics, and all associated accelerator systems, including RF, magnets and power supplies, beam diagnostics, control systems and more. Coupled with this is your proven ability to lead while building effective relationships and fostering teamwork. Reporting directly to the Accelerator Division Head, you will be part of the division's Leadership Team, and a member of the TRIUMF senior management group.

For full details of this exciting career opportunity, including job responsibilities, required skills/qualifications, and complete application instructions, please visit our web site and view the on-line posting for job #373 using the following URL:

<http://qr.triumf.ca/198>

TRIUMF is an EOE, and will accept applications until 4pm on
April 30th, 2013.

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Michigan State University | Facility for Rare Isotope Beams National Superconducting Cyclotron Laboratory

The Facility for Rare Isotope Beams (FRIB), a DOE Office of Science national user facility currently being established, and the National Superconducting Cyclotron Laboratory (NSCL), an NSF facility, both at Michigan State University, are searching for talented individuals seeking rewarding careers to join us in the following positions:

Faculty Positions in Accelerator Physics

Two faculty positions in accelerator physics with a research program related to the Facility for Rare Isotope Beams. PhD in physics, applied physics or engineering and postdoctoral experience required. Background in beam dynamics, linear accelerators, or superconducting radio frequency preferred.

Accelerator Systems Division Project Engineer

Senior technical manager with demonstrated track record, responsible for delivering \$250M accelerator scope on budget and schedule.

Magnet Department Manager

Experienced scientist or engineer to lead department that conceives, designs, implements, installs, and maintains superconducting and room-temperature magnet systems for accelerator physics applications.

Vacuum Systems Group Leader

Scientist or engineer to lead the design, installation and maintenance of beamline vacuum systems.

Detector Physicist

Scientist to lead the conception, development, and optimization of radiation detectors.

Scientific Software Engineer

Scientist or engineer to lead the design and implementation of next-generation data acquisition and analysis framework for nuclear science experiments.

Non-Conventional Utilities Mechanical Engineer/Physicist

Engineer or physicist with work experience at a reactor, accelerator, or radioactive materials processing facility to support detailed design, installation, commissioning, and operations of the non-conventional and conventional mechanical utilities at FRIB.

Postdoctoral Research Associates in Accelerator Physics

Recent PhDs with experience in areas such as linear accelerators, superconducting radio frequency, beam dynamics, instrumentation, diagnostics, superconducting magnets, accelerator modeling, or radiation transport.

Postdoctoral Research Associates in Experimental Nuclear Physics

Recent PhDs with a strong interest and experience in experimental nuclear physics or astrophysics with fast and stopped rare-isotope beams.



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UNIVERSITY**

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