

## **Seven Tenure-Track Positions related to the Particle Astrophysics program at Queen's University, Kingston, Ontario, Canada**

The Department of Physics, Engineering Physics and Astronomy, in partnership with the departments of Chemistry, Geological Sciences and Geological Engineering, and Mechanical and Materials Engineering at Queen's University invites applications for **seven** Tenure-track faculty positions at the rank of Assistant Professor. The successful candidates will be outstanding scientists who will establish excellent research programs and contribute to undergraduate and graduate teaching and supervision.

Queen's is playing a lead role in the establishment of the Canadian Particle Astrophysics Research Centre (CPARC), an ambitious new program funded by the Canada First Research Excellence Fund (CFREF). A major goal of CPARC includes building a powerful research team contributing to the many diverse requirements of a world-leading particle astrophysics research program. This includes the development of particle astrophysics experiments and theory, observational and theoretical astrophysics, detector design, and the development of tools and techniques for calibration, material screening and low level radio-purification. To achieve this, Queen's University anticipates hiring seven faculty members associated with CPARC in addition to a Tier 1 Canada Research Chair (CRC) particle astrophysics theorist, to complement its current team of research scientists, engineers, technicians, postdoctoral fellows and graduate students. An additional seven faculty hires are being strategically targeted at collaborating institutions across Canada to significantly enhance this world-renowned particle astrophysics program. For further information related to CPARC and to see the job listings, please see [www.cparc.ca](http://www.cparc.ca) and/or <http://www.queensu.ca/physics/tags/cparc-positions>.

The seven CPARC positions available at Queen's are:

1. Tenure-track Experimental Particle Astrophysics (in Physics)
2. Tenure-track Astrophysics & Particle Astrophysics (in Physics)
3. Tenure-track Theoretical Particle Astrophysics (in Physics, Joint with Perimeter Institute)
4. Tenure-track Particle Astrophysics and Detector Design (in Physics, with TRIUMF)
5. Tenure-track Radio-Analytical Chemist (in Chemistry)
6. Tenure-track Analytical Geochemistry (in Geology)
7. Tenure-track Irradiation of Materials (in Mechanical and Materials Engineering)

The successful candidates for these positions will have research programs that align with the research goals of CPARC, and which complement existing research activities at Queen's. Queen's is heavily invested in research activities at the SNOLAB facility for underground science (see [www.snolab.ca](http://www.snolab.ca)), a major international particle astrophysics facility located in Canada. The Particle Astrophysics Research Group in Physics has seven faculty members (including a CERC Chair, an IPP Research Scientist, two CRC 2 recipients, and the Gray Chair in Particle Astrophysics). Their research interests related to the SNOLAB program include dark matter physics (DEAP-3600, NEWS, PICO, SuperCDMS) and neutrinos (SNO+) (see [www.sno.phy.queensu.ca/group/](http://www.sno.phy.queensu.ca/group/)).

Candidates must have completed a PhD by the start date of the appointment. Research excellence and the demonstrated potential for teaching excellence are the main criteria for selection. The successful candidates will provide evidence of high quality scholarly output that demonstrates potential for independent research leading to peer assessed publications and the securing of external research funding. The candidates must also exhibit a strong potential for outstanding teaching contributions at both the undergraduate and graduate levels, and an ongoing commitment to academic and pedagogical excellence in support of the department's programs. The successful candidates will be expected to make substantive contributions through service to the department, the Faculty, the University, and/or the broader community. Salaries are commensurate with qualifications and experience.

For detailed information on each position, and to find the application instructions, please visit the websites [www.cparc.ca](http://www.cparc.ca) and/or <http://www.queensu.ca/physics/tags/cparc-positions>.