

Project Scientist at Carleton University in Ottawa, Ontario

April 2021

The SNOLAB group at Carleton University has an immediate opening for a Project Scientist in experimental particle astrophysics focusing on the development of future argon dark matter detectors. Reporting to the Principal Investigator (PI), your responsibilities will be as follows:

- Oversight of Noble Liquid Detector lab activities, including student activities in the lab
- In collaboration with the PI, conceptualize, design, recommend, and implement innovative research plans and experimental protocols. Independently develop approaches and procedures to meet the over all goals and objectives of the program.
- Install and maintain instruments at the lab including scintillation detectors using photomultiplier tubes and silicon photomultipliers, NIM pulse-processing electronics, commercial multi-channel analysis software, Ultra-high vacuum turbo-pumping systems, vacuum gauges, and residual gas analyzers.
- Maintain the cleanroom environment by implementing and ensuring maintenance procedures are followed, and ensuring materials brought into the room are compatible with the environment.
- Manage the lab by allocating resources and monitoring budgets, overseeing the safety and proper disposal of hazardous waste, coordinating weekly group meetings of all local research staff in the group, and contributing to the supervision of students and staff by providing expert advice and guidance, delegating and coordinating work flow.
- Contribute to development of technical documentation and research results

The position will be based at Carleton University in Ottawa and may involve travel to the SNOLAB facility in Sudbury (www.snolab.ca), the LNGS underground laboratory in Italy (www.lngs.infn.it) or the site of an underground argon extraction facility in Colorado, USA. Successful candidates will join the Carleton astroparticle physics research and technical team, described at physics.carleton.ca/apex.

Candidates should have an advanced degree in physics or in a closely related field with relevant experience. The initial appointment will be for two years with possibility of renewal. Salary range is commensurate with qualifications and experience.

Applicants should include a detailed CV, a cover letter which clearly highlight relevant skills and experience, and arrange to have at least three letters of reference forwarded to:

Prof. Mark Boulay
Professor and Tier 1 Canada Research Chair
DEAP Project Director
c/o Joseph Snider – Financial Officer
joseph.snider@carleton.ca

Applications will be accepted until the position is filled. Carleton University invites all qualified candidates to apply; however Canadian citizens and permanent residents will be given priority. Carleton University is committed to employment equity and diversity in the workplace and strongly encourages all qualified women, visible minorities, aboriginal people, persons with disabilities, and persons of any sexual orientation or gender identity to apply.