Postdoctoral Researcher - GRIFFIN

Comp. #630

TRIUMF is Canada's particle accelerator centre, and one of the world's leading laboratories for particle and nuclear physics and accelerator-based science. We are an international centre for discovery and innovation, advancing fundamental, applied, and interdisciplinary research for science, medicine, and business.

In support of our Nuclear Physics program, we are currently recruiting to immediately fill a postdoctoral research position in our Gamma-Ray Spectroscopy group. This group is involved in a number of programs investigating a variety of nuclear structure, nuclear astrophysics, and fundamental symmetries topics at TRIUMF's Isotope Separator and Accelerator (ISAC) ISOL radioactive beam facility. A large fraction of the group's research is focussed around the GRIFFIN Spectrometer (GRIFFIN), a powerful gamma-ray spectrometer for decay-spectroscopy experiments with stopped radioactive ion beams provided at ISAC.

The successful candidate will have the opportunity to lead and support basic research experiments utilizing infrastructure supported by the Gamma-Ray Spectroscopy at ISAC (GRSI) NSERC project grant, with emphasis on decay-spectroscopy experiments with GRIFFIN. The successful applicant will be expected to:

- Lead and participate directly in research with GRIFFIN and the other devices operated under the GRSI project funding;
- Dissemination of results as articles in peer-reviewed scientific journals and at national and international conferences and workshops;
- Simulating, constructing, installing, integrating, and commissioning the components of the GRIFFIN spectrometer and its ancillary detector systems;
- Developing, operating, monitoring, and maintaining the GRIFFIN digital data acquisition system hardware, firmware and software component parts;
- Supervision of undergraduate and graduate students;

Applicants must demonstrate extensive knowledge of contemporary nuclear structure, nuclear science, radiation measurement, and operation of radiation detectors. Knowledge of radiation detection and measurement is essential. Experience with both general and scientific computing, and data analysis using C++ and ROOT are also required. Qualifications include a recent Ph.D. in nuclear physics, and those individuals who are expecting to complete a PhD within two months are also encouraged to apply. A vision for leading an experimental program within the GRSI project would be a definite asset.

This grant funded position will be based at TRIUMF and the term of employment will be based on an initial commitment to a one year term. This may be renewed annually for a second and third term, based on mutual satisfaction and continued grant funding. Salary will be competitive depending on experience.

When submitting your application as detailed below, please include a detailed CV with a list of publications, and arrange for 3 letters of recommendation or reference to be sent directly to the email below.

TRIUMF is an equal opportunity employer committed to diversity in the workplace, and we welcome applications from all qualified candidates. Your complete application package should be submitted by email to recruiting@triumf.ca and will include the following in one complete PDF file:

- Subject line: Competition 630
- Employment Application Form
- Cover letter indicating salary expectations
- CV

Applications will be accepted until the position is filled