



Postdoctoral Research Fellow - TIGRESS Comp #530

[TRIUMF](#) is Canada's national laboratory 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 TRIUMF-ISAC Gamma-Ray Escape Suppressed Spectrometer ([TIGRESS](#)), a modern gamma-ray spectrometer for experiments with accelerated radioactive ion beams provided by the new ISAC-II superconducting linac.

The successful candidate will have the opportunity to lead and collaborate on experiments in nuclear structure, and will help maintain the fleet of TIGRESS HPGe Clover detectors and the TIGRESS ancillary detector systems. In addition, he/she will also be expected to assume certain responsibilities to support the TIGRESS spectrometer at ISAC-II and the TIGRESS data acquisition system. The successful applicant will be expected to:

- Participate directly in research with the devices the group operates at ISAC
- Setup, optimize, operate and maintain the TIGRESS spectrometer, its component detectors, and ancillary detector systems
- Maintain and operate the digital acquisition system, including upgrades, commissioning
- Disseminate results as articles in peer-reviewed scientific journals and at national and international conferences and workshops
- Supervise undergraduate and/or graduate students

Applicants must demonstrate extensive knowledge of contemporary nuclear structure, nuclear science, radiation measurement, and operation of radiation detectors. 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 experiment or program within the Gamma-Ray Spectroscopy at ISAC framework, and experience and knowledge of high-purity germanium detectors, will be considered valuable assets. Basic knowledge of FPGAs and software and firmware development will also be an 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 530
- [Employment Application Form](#)
- Cover letter indicating salary expectations
- CV

Applications will be accepted until position is filled

TRIUMF Human Resources, 2016-07-29