

Postdoctoral Fellow Position in Gamma-Ray Spectroscopy in the Department of Chemistry, Simon Fraser University, Burnaby, BC, Canada

The Nuclear Science Group (NSG) at Simon Fraser University (SFU) has an immediate opening for a two-year Post-Doctoral Fellow (PDF) position. The group is involved in gamma-ray spectroscopy experiments using stable and radioactive beams primarily at TRIUMF, Canada's particle accelerator center, and using the TRIUMF-ISAC Gamma-Ray Escape Suppressed Spectrometer (TIGRESS) and the Gamma-Ray Infrastructure For Fundamental Investigations of Nuclei (GRIFFIN) spectrometer and their suite of ancillary detectors. A wide variety of techniques are used at TRIUMF to explore a plethora of phenomena in exotic atomic nuclei ranging from beta- and beta-delayed neutron decays, Coulomb excitation, transfer reactions, fusion-evaporation reactions, etc. In addition to these experiments, the NSG at SFU is also involved and encourages participation in selected off-shore experiments. As part of the TIGRESS/GRIFFIN collaboration, the activities of the NSG include testing radiation detectors in the local laboratory at SFU and setting up and maintaining the GRIFFIN and TIGRESS detectors at TRIUMF.

Specific responsibilities will include:

- Preparing, designing, and participating in experiments with the GRIFFIN and TIGRESS spectrometers and their suite of ancillary detectors,
- Taking a leading role in experiments with the GRIFFIN and TIGRESS spectrometers and/or other experiments of mutual interest,
- Disseminating results as articles in peer-reviewed scientific journals and through presentations at national and international conferences,
- Directly supervising undergraduate and graduate students.

Qualifications include:

- PhD in experimental nuclear physics, or expected completion date in late 2022 or early 2023,
- Extensive knowledge of nuclear science, radiation measurements and the operation of radiation detectors,
- Experience in performing gamma-ray spectroscopy experiments,
- Experience with C++, root, and other dedicated software for gamma-ray spectroscopy data analysis,
- Excellent communication and superior writing skills.

Simon Fraser University is located in Metro Vancouver and is consistently ranked as one of the top comprehensive universities in Canada. The Vancouver area is one of the world's most desirable places to live and work in a very diverse community and provides endless opportunities for outdoor activities.

All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority. SFU is an equity employer and encourages applications from all qualified individuals including women, persons with disabilities, visible minorities, Indigenous Peoples, people of all sexual orientations and gender identities, and others who may contribute to the further diversification of the university.

For further inquiries regarding the job description and benefits please contact Prof. Corina Andreoiu at caa12@sfu.ca. Interested parties should submit an application that includes a cover letter, a detailed CV, and the contact details of three referees to caa12@sfu.ca. The review of the applications will start immediately and will continue until a suitable candidate is found.

September 8, 2022