



**SIMON FRASER UNIVERSITY**  
ENGAGING THE WORLD

**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 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 National Laboratory for Particle and Nuclear Physics, 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 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 GRIFFIN collaboration, the activities of the NSG include testing radiation detectors in the local laboratory.

*Specific responsibilities will include:*

- Testing the Compton suppression shields and associated electronics for the GRIFFIN spectrometer
- Taking a leading role in experiments with the GRIFFIN and TIGRESS spectrometers and/or other specific experiments
- Disseminating results as articles in peer-reviewed scientific journal and through presentations at national and international conferences
- Directly supervising undergraduate and graduate students

*Minimum qualifications include:*

- PhD in experimental nuclear physics, or expected completion date in early 2016
- Extensive knowledge of nuclear science, radiation measurements and the operation of radiation detectors
- Experience in performing gamma-ray spectroscopy experiments
- Experience with dedicated software of gamma-ray spectroscopy data analysis
- Excellent communication and superior writing skills

For further inquires regarding the job description and benefits please contact Prof. Corina Andreoiu at [caa12@sfu.ca](mailto:caa12@sfu.ca). Interested parties should submit an application that includes a cover letter, a detailed CV, and the contact details (email and phone number) of 3 references. The review of the applications will start on February 15, 2016.