

Graduate Student Positions in Natural Products Research

The Linington research group is recruiting new Ph.D. graduate students to join their growing program in natural products and chemical biology. Located in the Department of Chemistry at Simon Fraser University in Vancouver, the Linington research program is focused on the application of contemporary biological and chemical profiling strategies in natural products research. Research in this program centers on two main themes: 1) the development of novel methods in untargeted chemical profiling using state-of-the-art mass spectrometry and nuclear magnetic resonance spectroscopy tools and 2) the creation of novel high-content bioassay platforms for the detailed biological annotation of bioactive natural products. By integrating results from these two platforms we aim to develop new tools for the discovery of next-generation chemical probes and lead compounds for therapeutic development.

Students will be exposed to a broad array of technologies and research methods including:

- High-resolution mass spectrometry (using our new SYNAPT ion mobility qTOF instrument)
- High-field nuclear magnetic resonance (2 x 600 MHz cryoprobe spectrometers in Chemistry)
- Environmental microbiology and microbial natural products discovery
- Advanced chromatography and isolation methods, including super-critical fluid chromatography and preparative mass-guided separations
- Bioassay design and development in the new state-of-the-art chemical screening center at SFU (opening late 2016)
- Bioinformatics methods for data integration from multiple data types and network analysis for activity predictions in natural products.

The Department of Chemistry is located on the Burnaby campus of Simon Fraser University at the edge of Vancouver. The department is housed in a newly renovated building and is equipped with an excellent suite of core resources (NMR, MS, X-ray etc). With a cohort of ~100 graduate students, a strong tradition of collaborative interactions between research groups, and an outstanding local environment for recreation, students will find SFU an exciting and stimulating place to work and play.

SFU Chemistry Graduate Program: <http://www.sfu.ca/chemistry/graduate/prospective-students.html>

Linington Lab website: <http://linington.chem.sfu.ca/>

SFU Chemistry employs a rolling admissions policy that permits applications throughout the year. Interested candidates are encouraged to send a CV, cover letter and contact details for two referees to Prof. Linington (rliningt@sfu.ca).

