



a place of mind

THE UNIVERSITY OF BRITISH COLUMBIA

POSITION DESCRIPTION

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| BUSINESS TITLE: | Research Asst/Tech 2 |
| EMPLOYMENT GROUP: | Technicians & Research Assists |
| JOB FAMILY: | Research/Technical - Non Union |
| JOB CODE: | 500602 - Research Asst/Tech 2 |
| VP/FACULTY: | Faculty of Medicine |
| DEPARTMENT: | Pathology |
| PAY GRADE: | 3 (commensurate with experience) |

JOB SUMMARY

The Lange laboratory focuses on pediatric cancers. The goal is to develop new diagnostic and therapeutic approaches to detect and treat children suffering from cancer earlier, better and with reduced impact on their life. To reach this goal, we use proteomics; biochemistry; cell biology; and molecular biology approaches to study protein function and cell signaling related to childhood cancers. We are seeking an exceptional research technician to pursue this goal together with us and join our young and dynamic research laboratory.

The individual's main role is to perform proteomics sample preparation and cell culture assays. The candidate will also assist in conducting experiments designed to improve technology and investigate signaling processes in cancer cells. We are seeking an experienced, curiosity driven and detail oriented individual with strong skills and expertise in proteomics, cell biology and biochemistry as well as autonomy in designing and conducting experiments. Experience in operation and maintenance of mass spectrometry equipment is considered an asset.

ORGANIZATIONAL STATUS

The Lange lab is a newly established research laboratory located in the BC Children's Hospital Research Institute (BCCHRI) within the Oak Street Campus. This position reports to the principal investigator and interacts with other members of the laboratory (1 post doc, 5 graduate students, and 2 undergraduate students).

WORK PERFORMED

- Routine preparation of proteomics samples (tissue lysis, protein precipitation, labeling, digestion, SCX, HILIC, SEC chromatography, phospho-peptide enrichment, ...)
- Routine analysis of quantitative proteomics data
- Routine biochemical and cell biological techniques including: SDS page & western blotting; protein expression / purification / quantification; cell culture; cell proliferation / apoptosis / senescence / migration assays

- Contribute to and perform biological experiments related to research in a range of normal and cancer tissues/cells including leukemia and neuroblastoma; troubleshoot problems as they arise
- Assist in development of new analytical techniques and methodologies
- Communicate and coordinate with collaborators and perform proof-of-concept experiments
- Laboratory organization & inventory maintenance
- Contribute to methods and safety training for students and junior lab staff
- Participate in meetings related to technical and scientific aspects of the projects in the laboratory.
- Other duties as required.

CONSEQUENCE OF ERROR

Errors may result in the permanent loss of irreplaceable tissue samples, loss of thousands of dollars of material and/or damage to equipment. Loss of research results could result in the failure of a funded project and put in jeopardy any future funding and the international reputation of the Laboratory and the Institute.

SUPERVISION RECEIVED

Works under minimum supervision, receiving specific instructions only on unusual problems or when receiving new projects outlines from the principal investigator.

SUPERVISION GIVEN

Assist in training students and junior lab staff; provide input on co-op student selection and performance evaluation.

QUALIFICATIONS

Undergraduate degree in a relevant discipline or Graduation from a technical college or institute. M.Sc. graduate in Biochemistry, Microbiology, Genetics, Biology, Chemistry or other appropriate discipline preferred. Minimum of 2 years related experience or the equivalent combination of education and experience. We are looking for an applicant with the following qualifications:

- Demonstrated ability to work independently and communicate effectively with faculty, staff, trainees, and collaborators.
- Demonstrated ability to conduct cell biological and biochemical assays with high precision and attention to detail.
- Experienced in standard laboratory techniques (SDS page, mammalian cell culture, immunohistochemistry)
- Advanced skills in cell biological and biochemical laboratory techniques considered an asset
- Advanced skills in proteomics techniques (protein and peptide labeling, phospho-enrichment, liquid chromatography, data analysis) considered an asset
- Advanced knowledge and experience in operation and maintenance of nano-LC tandem mass spectrometry systems for protein and peptide separation considered an asset.
- Strong organizational skills and ability to work in a team-oriented environment.
- Good English verbal and written communication skills.

We Offer:

- A dynamic and diverse work environment.
- The opportunity to work with and learn from world experts in proteomics and childhood

cancer research at UBC, BC Cancer Research Centre and the BCCHRI.

- Plentiful opportunities to advance your skills, be creative and take on new roles.

This position will commence as soon as possible. This is a one-year term appointment, with potential for annual renewal. **To apply**, please send a cover letter, CV and contacts for three references to Brenda Tse at brenda.tse@ubc.ca by **Sept 29, 2017**. This position will remain open until filled.

UBC hires on the basis of merit and is strongly committed to equity and diversity within its community. We especially welcome applications from visible minority group members, women, Aboriginal persons, persons with disabilities, persons of minority sexual orientations and gender identities, and others with the skills and knowledge to productively engage with diverse communities. All qualified candidates are encouraged to apply.