

POSITION DESCRIPTION

Job title: Postdoctoral Fellow (Reid Lab)

Employee Group: Faculty

Faculty: Medicine

Department: Pediatrics

FTE: Full time

This position is located within a health-care facility. Therefore, this position requires successful verification of full vaccination against Covid-19 provided prior to the start date, as required by the provincial health mandate.

Job Summary:

A postdoctoral position in complex flow cytometry is available at The University of British Columbia-affiliated BC Children's Hospital Research Institute in Vancouver, Canada. Working with the Reid research team (<https://www.bcchr.ca/greid>), the successful applicant will lead the development of an industry-sponsored project to evaluate B cell maturation in antibody-producing cell cultures, and contribute to ongoing studies of immune reconstitution in patients after chemotherapy and pediatric leukemia.

Organizational Status:

The successful candidate will report directly to Dr. Gregor Reid, the principal investigator, and will work in a strongly collaborative and collegial fashion with cross-functional project team members to meet research goals and objectives.

Work Performed:

- Design and implement research plans to investigate in vitro B cell maturation and the immunology of pediatric cancers
- Conduct flow cytometry experiments and analyses. Keep up-to-date on new flow cytometer technologies, methodologies and software analyses programs
- Foster research collaborations and work jointly with academic, clinical, industry, and other partners
- Scientifically document lab experiments, data analysis, interpretations
- Contribute to grant preparation, write manuscripts and present results at internal and external meetings
- Mentor junior trainees in the laboratory

Qualifications:

We are looking for an independent individual who has completed their PhD in the field of molecular or cellular biology, immunology or a related discipline within the **last two years**, who has demonstrated expertise in flow cytometry data acquisition and analysis. The ideal candidate should possess:

- Strong background in multicolour flow cytometry, including complex panel design, marker selection, assay development (> 10 colours)

- Significant experience with complex gating of flow-based data in immunological, stem cell development, and/or hematological malignancy context
- In-depth understanding of flow-based population characteristics, immune cell subset complexity and rare event detection
- Technical expertise in complex data acquisition, in ensuring standardization and robustness of flow data acquisition, running precious samples
- Expert knowledge of FlowJo, other analysis software (Kaluza, Infinicyt, etc.), including proven experience with algorithm-based high-dimensional flow analysis
- Demonstrated ability to explore, understand and analyze novel patterns in complex research datasets
- Strong data visualization, statistical analysis and presentation/writing skills of research findings
- Excellent communication, attention to detail and commitment to work in an inter-disciplinary research environment
- Advanced understanding of human hematopoiesis, tumour immunology, cancer/leukemia biology
- Additional experience in computational (R-based) analysis of complex flow/omics datasets, and/or spectral flow cytometry would be an asset

Consequence of Error:

The successful applicant is expected to exercise a considerable amount of judgment, responsibility, and initiative in determining work procedures and methods. They must carefully observe and evaluate their work. All works are subjected to assessment by Dr. Reid. Consistent poor judgment decisions or errors can result in data loss, incorrect data interpretation and/or potential loss of funding.

Supervision Received:

The applicant is expected to work independently under the direction of Dr. Reid, who will be available to provide consultation on unusual problems and project developments.

Supervision Given:

Assist with training graduate students and junior lab staff.

How to apply:

To apply, please send your cover letter and curriculum vitae, and contact information for three references to Dr. Gregor Reid (greid@bcchr.ca).

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.