# *Research Programmer*

http://www.birol-lab.ca

*Looking for a challenge? Work in fast-pace cutting-edge research!*

## Summary

The Research Programmer provides technical support for research projects in the Bioinformatics Technology Lab (BTL) / Genome Sciences Centre - BC Cancer Agency through developing data models, software, and documentation. Works independently in a multidisciplinary environment, and participates as a project team member on specific genome research projects to develop and test code.

## Key Accountabilities

- Develop and implement new algorithms, or implement algorithms from literature
- Work with the BTL's large C/C++ code base (improve existing modules, create new ones, etc.)
- Work on complex biological problems in which analysis of sequence data requires in-depth evaluation
- Collaborate with the Group Leader, Computational Biologists, and Scientists to develop and test code, implement software
- Prepare programming documentation in accordance with prescribed standards
- Conduct literature reviews, and provides input and recommendations to the Principal Investigator or the Group Leader regarding new computer applications or statistical techniques
- Participate in lab meetings and present work for review by others
- May provide day-to-day work direction to others
- Provide contributions to the preparation and/or presentation of research manuscripts

## Qualifications

- B.A./B.S., M.S, or Ph.D. in Computer Science, Bioinformatics, Engineering or a related field
- Minimum 2 years experience in C/C++
- Experience with designing and developing new algorithms is a must
- Experience with at least one scripting language (Python, PERL, etc.)
- Experience with good software engineering practices (code review, unit testing, etc.)
- Experience with Unix/Linux environment and experience with version control practices and tools
- Experience with analyzing very large datasets (1TB+ scale)
- Knowledge of Next-Generation sequencing data analysis (DNA, RNA) and graph theory preferred

**The successful applicant will be part of a team of research scientists working in a dynamic environment to primarily develop and apply data analysis algorithms and protocols to analyze genome data. You will be contributing to advancing science, cancer and genome research locally and worldwide. Send your CV with cover letter to bcgscjobs@bcgsc.ca Job Code: RP 05-31-2018**