

Bioinformatics Developer

The Center for Comparative Genomics and Evolutionary Bioinformatics is seeking a Bioinformatics Developer for the newly launched Integrated Microbiome Resource (CGEB-IMR) at Dalhousie University, who will lead the development and deployment of analytical pipelines for microbiome data. The position will entail the following tasks:

1. In collaboration with group members, develop user-friendly software tools (scripts and applications) that enable the deployment and execution of standardized analyses of microbial genome, marker-gene and metagenome data sets. **(40%)**
2. Test, validate, optimize and benchmark analytical pipelines using a variety of data sets. **(20%)**
3. Identify new applications that can improve existing pipelines, either by improving existing approaches or adding new features. **(10%)**
4. Organize and deliver training sessions that teach faculty, students and postdocs how to effectively use pipelines and their constituent applications. **(20%)**
5. Provide basic assistance to users in pipeline execution and interpretation of results. **(10%)**

Essential qualifications

- Master's degree or greater in a relevant field such as bioinformatics, computer science, or biology
- Experience with UNIX / Linux environments, shell scripting and Perl or Python
- Experience in installation and debugging of external applications
- Experience with DNA and protein sequence manipulation, familiarity with sequence file formats and techniques such as homology search (e.g., BLAST) and sequence alignment
- Strong communication skills; experience with teaching in bioinformatics or related disciplines
- Ability to manage multiple tasks and meet deadlines

Desirable qualifications

- Demonstrated ability to carry out research projects involving microbial sequence data; peer-reviewed publications in the field
- Experience with microbiome sequence analysis tools such as QIIME, Mothur, and MG-RAST, etc.

Term: The initial contract term is one year, with the possibility of extension to two years by mutual agreement.

Close: Nov. 7th, 2014

Salary: Commensurate with experience

Interested candidates should send a CV and cover letter to Morgan Langille (morgan.g.i.langille@dal.ca)