

Bioinformatics Scientist, Computational Genomics Resource Laboratory - QB3 - University of California, Berkeley – JPF01203

RECRUITMENT PERIOD

Open date: November 30th, 2016

Next review date: January 11th, 2017

Apply by this date to ensure full consideration by the committee.

Final date: January 11th, 2017

Applications will continue to be accepted until this date, but those received after the review date will only be considered if the position has not yet been filled.

DESCRIPTION

The QB3 Computational Genomics Resource Laboratory (CGRL) is UC Berkeley's center for genomic bioinformatics analysis, qb3.berkeley.edu/cgrl. We are searching for a Bioinformatics Scientist for the CGRL to serve as a primary resource for researchers in the Innovative Genomics Institute (IGI), a partnership between UC Berkeley and UC San Francisco, focused on advancing the science of genome editing (innovativegenomics.org).

The Bioinformatics Scientist will work with the CGRL faculty directors and other staff to manage and provide instructional, consulting and collaboration services in design and analysis of genomic experiments, serving researchers in IGI and throughout the Berkeley community.

The mission of the CGRL is to serve as a focal point for scientists interested in comprehensive analysis of genomics data. The CGRL ensures that Berkeley researchers are equipped with the expertise and infrastructure required for their research programs by providing consultation, workshops, collaboration and computing infrastructure.

Job Duties:

- Provide expertise in computational genomics for the analysis of genomic data, most frequently resulting from genome editing and regulation experiments. This expertise will include use and development of computational pipelines for analysis of genomic data, primarily high-throughput sequencing data from a variety of platforms (e.g., sequencing of genome-scale screen results, quantification of alleles from amplicon sequencing, RNA-Seq for differential expression, genome assembly, resequencing and variant calling with associated functional annotation, single-cell and population genomics, metagenomics).
- Provide consultations to researchers to convey best practices and specific solutions for experimental design, workflows and trouble-shooting.
- Provide workshops and short courses to students, postdocs, and faculty on analysis methods associated with genomic data.
- Maintain, administer and use computational infrastructure, including workstations, high-performance computing clusters, and cloud/national infrastructure platforms.
- Effectively communicate with users.

A Ph.D. or equivalent degree in Bioinformatics, Molecular Biology, Statistics, Computer Science or related field is required by the start date. At the time of application, the basic minimum qualification is the completion of all degree requirements except the dissertation, with experience in Genomics and Molecular Biology.

Additional Required Qualifications (by start date):

- Four or more years of experience working with genomic data, as exemplified by the following areas: high-throughput sequence analysis, functional genomics, differential gene expression, automated annotation, population genomics, quantitative genetics, comparative genomics, genome variant analysis or extensive collaborative work with wet-lab researchers.
- Experience working with a subset of standard bioinformatics, statistics, and analytical tools.
- Sufficient knowledge of UNIX/Linux to manage a system and interact with system administrators and support staff.
- Advanced skills in scripting or programming languages, preferably Python.
- Ability to communicate effectively in a highly diverse, cross-disciplinary environment.

Preferred Qualifications:

- Experience in genomic data exploration, visualization, and figure preparation for publications.
- Ability to complete and describe projects, demonstrated for example by journal articles and/or preprints.
- Software/pipeline creation and maintenance, version control, reproducible workflows.

Salary:

Salary is commensurate with experience. The appointment date is for one year with an approximate start date of February 1, 2017, with a possibility for renewal.

How to Apply:

To apply, please go to the following link: <http://aprecruit.berkeley.edu/apply/JPF01203>

Applicants should submit a cover letter, curriculum vitae, and contact information for 3 references.

Letters of reference are not required at this time. We will seek your permission before contacting your references. All letters will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters are provided via a third party (i.e., dossier service or career center), to the UC Berkeley statement of confidentiality: <http://apo.berkeley.edu/evalltr.html>.

This position will be open until filled. If you have any difficulty uploading your application or any questions, please email Natasha Singh at n.singh@berkeley.edu.

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy see: <http://policy.ucop.edu/doc/4000376/NondiscrimAffirmAct>.