

Bioinformatician (9401U), Innovative Genomics Institute -
65111
University of California, Berkeley

Direct Link: <https://www.AcademicKeys.com/r?job=231147>

Downloaded On: May. 9, 2024 4:43am

Posted Feb. 21, 2024, set to expire Jun. 30, 2024

Job Title	Bioinformatician (9401U), Innovative Genomics Institute - 65111
Department	Innovative Genomics Institute
Institution	University of California, Berkeley Berkeley, California
Date Posted	Feb. 21, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Professional Staff
Academic Field(s)	Informatics - All Categories
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Job Description

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About Berkeley

At the University of California, Berkeley, we are committed to creating a community that fosters equity of experience and opportunity, and ensures that students, faculty, and staff of all backgrounds feel safe, welcome and included. Our culture of openness, freedom and belonging make it a special place for students, faculty and staff.

The University of California, Berkeley, is one of the world's leading institutions of higher education, distinguished by its combination of internationally recognized academic and research excellence; the

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transformative opportunity it provides to a large and diverse student body; its public mission and commitment to equity and social justice; and its roots in the California experience, animated by such values as innovation, questioning the status quo, and respect for the environment and nature. Since its founding in 1868, Berkeley has fueled a perpetual renaissance, generating unparalleled intellectual, economic and social value in California, the United States and the world.

We are looking for equity-minded applicants who represent the full diversity of California and who demonstrate a sensitivity to and understanding of the diverse academic, socioeconomic, cultural, disability, gender identity, sexual orientation, and ethnic backgrounds present in our community. When you join the team at Berkeley, you can expect to be part of an inclusive, innovative and equity-focused community that approaches higher education as a matter of social justice that requires broad collaboration among faculty, staff, students and community partners. In deciding whether to apply for a position at Berkeley, you are strongly encouraged to consider whether your values align with our [Guiding Values and Principles](#), our [Principles of Community](#), and our [Strategic Plan](#).

At UC Berkeley, we believe that learning is a fundamental part of working, and our goal is for everyone on the Berkeley campus to feel supported and equipped to realize their full potential. We actively support this by providing all of our staff employees with at least 80 hours (10 days) of paid time per year to engage in professional development activities. To find out more about how you can grow your career at UC Berkeley, visit grow.berkeley.edu.

Departmental Overview

The Innovative Genomics Institute is a joint effort between the Bay Area's leading scientific research institutions, UC Berkeley and UC San Francisco, with affiliates at UC Davis, Lawrence Berkeley National Laboratory, Lawrence Livermore National Laboratory, Gladstone Institutes, and other institutions. The IGI's diverse group of leading scientists have powerful interdisciplinary expertise. They conduct world-class research, driven by the real possibility of using genome engineering to treat human diseases, end hunger, and respond to climate change.

Application Review Date

The First Review Date for this job is: March 5, 2024

Responsibilities

- Develops new tools to interpret and visualize molecular data, including CRISPR-based experiments.

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- Collaborates with automation engineers to help streamline data transfer between liquid-handling robots or lab equipment, data processing, and visualization.
- Interacts with IGI research collaborators to curate bioinformatic tools to analyze their unique data.
- Integrates clinical databases into command-line query tools for the lab.
- Maintains a high-traffic web-platform for assessing the 'editability' of targetable sites within the genome to enable the creation of genome-editing therapies for human health.
- Plans, tests and develops tools to enable genome engineers to appropriately target cells and delivery mechanisms to treat rare genetic disease, using publicly- available dataset or home-brewed pipelines.
- Collaborates with PIs and other bioinformaticians on time-sensitive projects and research.
- Interprets CRISPR experiments, maintain databases and repositories, and analyze next-generation sequencing data.
- Applies complex bioinformatics concepts to design, develop, modify, debug, and evaluate software programs, systems, and web tools.
- Ensures software being used in existing and new pipelines are properly configured to take advantage of highly distributed computing resources including bioinformatic software and pipelines are properly configured and deployed to take full advantage of computing infrastructure.
- Develops, implements, and maintains web interfaces to share and display bioinformatics analysis and content with collaborators and other users.
- Develops methods and process to train technicians or clinical laboratory staff on how to use new pipelines and analyze their data.
- Maintains HIPAA-compliant server and securely manages access to stored data.
- Securely stores data, builds web-platforms, and trains end-users on the new bioinformatic tools.
- Performs complex data modeling, performance and integration testing, and builds user interfaces for a variety of internal and external constituents.
- Conducts bioinformatics programming and testing of new algorithms that interact with other related databases.
- Analyzes existing programs or works to formulate logic for new systems, devises logic procedures, flowcharts, data analysis, codes and tests / debugs programs.
- Recommends and implements changes in development, maintenance and sets system standards for analysis algorithms, tools, and infrastructure.

Required Qualifications

- Thorough knowledge of modern biology and applicable field of research.
- Thorough knowledge of bioinformatics methods, applications programming, web development and data structures.

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- Thorough knowledge of bioinformatics programming design, modification and implementation.
- Understanding of relational databases, web interfaces, and operating systems.
- Strong project management skills.
- Communication skills to work with both technical and non-technical personnel in multiple fields of expertise and at various levels in the organization.
- Ability to communicate technical information in a clear and concise manner.
- Ability to interface with management on a regular basis.
- Ability to self-motivate, work independently or as part of a team, learn quickly, meet deadlines, and demonstrate problem solving skills.
- Thorough knowledge of web, application and data security concepts and methods.

Education/Training:

- Bachelor's degree in related area and / or equivalent experience / training.

Preferred Qualifications

- Master's degree or PhD in a related area and/or equivalent experience/training.

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Salary & Benefits

For information on the comprehensive benefits package offered by the University, please visit the University of California's [Compensation & Benefits](#) website.

Under California law, the University of California, Berkeley is required to provide a reasonable estimate of the compensation range for this role and should not offer a salary outside of the range posted in this job announcement. This range takes into account the wide range of factors that are considered in making compensation decisions including but not limited to experience, skills, knowledge, abilities, education, licensure and certifications, analysis of internal equity, and other business and organizational needs. It is not typical for an individual to be offered a salary at or near the top of the range for a position. Salary offers are determined based on final candidate qualifications and experience.

The budgeted salary or hourly range that the University reasonably expects to pay for this position is \$95,300.00 - \$140,100.00.

- This is a 100%, full-time (40 hours per week), career position that is eligible for full UC benefits.
- This position is exempt and paid monthly.
- This is a hybrid position, eligible for up to 50% remote capability.

How to Apply

To apply, please submit your resume and cover letter.

Conviction History Background

This is a designated position requiring fingerprinting and a background check due to the nature of the job responsibilities. Berkeley does hire people with conviction histories and reviews information received in the context of the job responsibilities. The University reserves the right to make employment contingent upon successful completion of the background check.

Equal Employment Opportunity

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified

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applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, or protected veteran status. For more information about your rights as an applicant, please see [the U.S. Equal Employment Opportunity Commission](#) poster.

For the complete University of California nondiscrimination and affirmative action policy, please see the University of California [Discrimination, Harassment, and Affirmative Action in the Workplace](#) policy.

To apply, visit

https://careerspub.universityofcalifornia.edu/psp/ucb/EMPLOYEE/HRMS/c/HRS_HRAM.HRS_APP_SCH

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

N/A

University of California, Berkeley

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