

Research Associate, Genome Editing (9612C), Innovative
Genomics Institute - 63589
University of California, Berkeley

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Posted Jan. 18, 2024, set to expire Jun. 30, 2024

Job Title	Research Associate, Genome Editing (9612C), Innovative Genomics Institute - 63589
Department	Innovative Genomics Institute
Institution	University of California, Berkeley Berkeley, California
Date Posted	Jan. 18, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Bioengineering (all Bio-related fields)
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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 (IGI) is a non-profit, academic research organization formed through the partnership of UC Berkeley and UC San Francisco, and located on the UC Berkeley campus. A key focus of the IGI is accelerating translation of CRISPR-based approaches to address real-world problems in human health, agriculture, and climate.

The IGI is committing to hiring researchers who want to work in a high- performing culture. The IGI is interested in candidates who will contribute to our commitment to excellence, diversity, and inclusion in academia. The IGI is also interested in applicants who may have had non-traditional career paths, taken time off for family/personal reasons, or excelled in careers outside academia. Most of our job postings list "required" and "preferred" qualifications. We encourage individuals to apply who do not meet every preferred qualification, but who could grow and thrive in the role.

Research is conducted in the laboratory of Fyodor Urnov, Professor of Molecular Therapeutics in the MCB Department at UC Berkeley and Director of the Innovative Genomics Institute - Danaher Beacon

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for CRISPR Cures. The Beacon aims to develop and advance to clinical trials novel CRISPR-based approaches to Inborn Errors of Immunity (Primary Immunodeficiency Diseases). The position will support nonclinical studies for two such approaches that comprise the Beacon. Tasks will include applications of recombinant DNA technology, PCR, DNA sequencing and analysis via traditional and NGS approaches, RNA in vitro synthesis and analysis, and human tissue culture cell work.

Application Review Date

The First Review Date for this job is: January 30, 2024

Responsibilities

- Perform recombinant DNA procedures, including via use of laboratory automation hardware, to construct novel expression vectors for genome editors.
- Characterize the vectors by sequencing and perform mRNA in vitro transcription for subsequent in-cell testing.

Recombinant DNA:

- Routine plasmid maintenance and sequence-characterization, performing a variety of cloning procedures such as Gibson cloning; scaleup to laboratory automation (with assistance from automation specialist).
- Design and execution of PCR- and sequence-based assays to quality-control resulting expression constructs.

Nucleic acid-directed assays:

- Design and execution of a variety of assays (eg based on NGS or ddPCR) aimed at detecting genome editing outcomes.

Mammalian cell culture:

- Human transformed tissue culture cell line passaging and transfection.
- Manage miscellaneous molecular techniques such as RT-PCR, ddPCR, and NGS.
- Assist personnel in nonclinical lead teams with design and testing of novel constructs and molecular assays to assess genome editing potency and specificity.

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- Perform quality control of genome editor compositions by delivery to human tissue culture cells, genomic DNA harvest, and next-generation sequencing followed by data analysis.
- Analyze experimental data and assist Beacon researchers in preparing scientific presentations and reports.
- Maintain laboratory supplies, protocols, and hardware for consistent operational readiness to meet project goals.

Required Qualifications

- Cultural competence and excellent interpersonal skills.
- Ability to work well independently and as part of a team.
- Excellent organizational skills to ensure smooth functioning of lab.
- Ability to operate and maintain laboratory equipment.
- At least 1-year wetlab experience, could be during undergraduate studies.
- Experience with molecular cloning.

Education/Training:

- Bachelor's degree in biological sciences, engineering, or related field and/or equivalent experience/training.

Preferred Qualifications

- Experience with human cell culture.
- Experience with flow cytometry and other immunoassays.
- Experience with next generation sequencing.

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

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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 \$58,490.82 (step 1.0) - \$90,455.87 (step 23.0).

- 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.

How to Apply

To apply, please submit your resume and cover letter.

Other Information

This position is governed by the terms and conditions in the agreement for the Research Support Professionals Unit (RX) between the University of California and the University Professional and Technical Employees (UPTe). The current bargaining agreement manual can be found at:
<http://ucnet.universityofcalifornia.edu/labor/bargaining-units/rx/index.html>

Equal Employment Opportunity

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, 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.

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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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