

Research and Development Engineer 3 (7120U),
Innovative Genomics Institute - 73023
University of California, Berkeley

Direct Link: <https://www.AcademicKeys.com/r?job=245448>

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Posted Sep. 19, 2024, set to expire Jan. 16, 2025

Job Title	Research and Development Engineer 3 (7120U), Innovative Genomics Institute - 73023
Department	Innovative Genomics Institute
Institution	University of California, Berkeley Berkeley, California
Date Posted	Sep. 19, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Professional Staff Research Scientist/Associate
Academic Field(s)	Robotics Computer Science Engineering - Other
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Job Description

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Research and Development Engineer 3 (7120U), Innovative Genomics Institute - 73023

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

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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 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 IGI is a multidisciplinary research laboratory focused on genome engineering and potential applications in agriculture, microbiology, and biomedicine. It is a joint venture between UC Berkeley, UC Davis and UC San Francisco, with the administrative operations located on the Berkeley campus. This position is located at the UC Berkeley campus.

Position Summary

Experienced professional who will, in addition to performing general maintenance and upkeep, work with Principal Investigators and their researchers to design, program and execute custom automation workflows, and recover, integrate and analyze data on a Hudson Robotics automated culturomics

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system. The position will include similar responsibilities for other equipment such as a Hamilton Starlet Robot.

Application Review Date

The First Review Date for this job is: 10/01/2024.

Responsibilities

- Collaborate with principal investigators and their researchers to design and program general protocols (e.g. DNA extraction) for the Hamilton Starlet Robot in Rm. 142.
- Working with principal investigators and their researchers, design, program, and execute custom automation workflows on the Hudson Robotics automated culturomics system.
- Working with principal investigators and their researchers, recover, integrate, and potentially analyze data from the Hudson Robotics automated culturomics system.
- Integrate standardized data outputs from Hudson Robotics culturomics systems into a format that can be easily analyzed by researchers.
- Perform general maintenance and upkeep on the Hudson Robotics automated culturomics system.
- Assess and troubleshoot simple technical and mechanical failures of Hamilton and Hudson robotic laboratory automation systems.
- Other duties as assigned.

Required Qualifications

- Thorough knowledge and experience with engineering principles and methods to independently perform the full range of engineering professional design work.
- Thorough knowledge necessary to apply principles, practices and procedures in the completion of assignments.
- Demonstrated organizational and decision-making abilities to prioritize competing work assignments in order to meet deadlines and adherence to quality standards.
- Strong analytical and judgment skills to independently conduct analyses and develop appropriate recommendations.
- Effective written and verbal communication and presentation skills.
- Ability to work in a collaborative manner; identify challenges and barriers and recommend resolutions.
- Bachelor's degree in engineering, computer science and/or equivalent experience/training.

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Preferred Qualifications

- Ability to lead and influence others.
- Expert working knowledge of C/C++, python, JavaScript, Unreal Engine.
- Ability to interpret and determine validity of data and check own work.

Salary & Benefits

This is a 100% full-time (40 hrs a week) exempt career position, which is paid monthly and eligible for UC 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 annual salary that the University reasonably expects to pay for this position is \$88,900.00 - \$120,000.00.

How to Apply

- To apply, please submit your resume and cover letter.

Other Information

- This is not a visa opportunity.
- This position is eligible for up to 10% remote work. Exact arrangements are determined in partnership with your supervisor to meet role responsibilities and department needs, and are

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subject to change.

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 https://apptrkr.com/get_redirect.php?id=5650418&targetURL=U.S. Equal Employment Opportunity Commission poster.

The [University of California's Affirmative action policy](#).

The [University of California's Anti-Discrimination policy](#).

To apply, visit

https://careerspub.universityofcalifornia.edu/psc/ucb/EMPLOYEE/HRMS/c/HRS_HRAM_FL.HRS.CG_S

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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