Postdoc - Microbiome - Innovative Genomics Institute
University of California Berkeley

Job Title	Postdoc - Microbiome - Innovative Genomics Institute
Department	Innovative Genomics Institute
Institution	University of California Berkeley
	Berkeley, California
Date Posted	Dec. 18, 2025
Application Deadline	01/16/2026
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Biology - Microbiology
	Biology - Computational
	Biology - Genetics
	Biology - General
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Job Description

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Position overview

Position title: Postdoc
Salary range: The UC postdoc salary scales set the minimum pay determined by experience level at

appointment. See the following table(s) for the current salary scale(s) for this position: https://www.ucop.edu/academic-personnel-programs/_files/2025-26/represented-oct-2025-scales/t23.pdf. A reasonable estimate for this position is $69,073 - $77,030.

Percent time: 100%

Anticipated start: Spring 2026

Position duration: Initial appointment is for two years with the possibility of renewal based on performance and funding availability.

Application Window
Open date: December 15, 2025

Next review date: Tuesday, Dec 30, 2025 at 11:59pm (Pacific Time)
Apply by this date to ensure full consideration by the committee.

Final date: Friday, Jan 16, 2026 at 11:59pm (Pacific Time)
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.

Position description

The lab of Dr. Spencer Diamond at UC Berkeley's Innovative Genomics Institute (IGI) is recruiting a postdoctoral scholar to join a highly collaborative team of researchers, who are tightly integrated within IGI's Berkeley Initiative for Optimized Microbiome Editing (BIOME). Projects will focus on characterizing model microbiomes using genome-resolved multi-Omics methods, statistical/metabolic modeling, and machine learning. The postdoc will apply these approaches to generate a systems-level understanding of microbiomes including the importance of individual microbial species, microbe-microbe interactions, plasmids, and phages in the behavior of a whole microbiome. These efforts will be closely integrated with those of a multidisciplinary team from UC Berkeley, UCSF, and UC Davis to design strategies to alter microbiome behavior through targeted genetic editing. Specific projects are flexible but include characterizing the microbiomes of the bovine rumen, development of methods for metabolic functional guild analysis, microbiome stable state modeling, and employing AI for predicting rumen microbiome collective behaviors. This work is supported by a long term fully funded grant program, will allow significant flexibility in project design, and is supported by IGI core resources such as large sequencing allowances and a comprehensive in-house computational infrastructure.

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The Diamond Lab integrates genome-resolved multi-omics, machine learning, and the design of "communoids" - laboratory-based microbial consortia that mimic natural microbiomes - to uncover principles governing microbiome function and resilience. Specifically, the lab studies how microbiome features, such as genes, species, and their interactions, shape community collective behaviors that influence human health and climate change.

Responsibilities:

- designing and executing experiments
- data management
- data analysis
- manuscript preparation
- presenting research
- contributing to grant proposals
- mentoring students

Qualifications
Basic qualifications (required at time of application)
PhD (or equivalent international degree) or enrolled in a PhD (or equivalent international degree) program.

Additional qualifications (required at time of start)

- PhD (or equivalent international degree) required by the appointment start date.
- No more than three years of post-degree research experience by start date.

Preferred qualifications

- PhD in Microbiology, Computational Biology, Genomics, Systems Biology, Statistics, Machine Learning or related discipline
- Publication record in Microbiology, Metagenomics, Metabolic/Statistical Modeling, Bioinformatics, Systems Biology or related fields.
- Demonstrated experience in the some or all the following areas:
  - Environmental Microbiology / Microbiomes, specifically bovine rumen microbiomes
  - Genome Resolved Metagenomics
  - Microbial Statistical Ecology
  - Microbial Metabolism

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- ○ Metabolic and/or Statistical Modeling
- ○ Network Analysis
- ○ Systems Biology
- ○ Machine Learning and Machine Learning Frameworks
- ○ NGS Data Analysis
- ○ Programming proficiency in R or Python
- ○ Training and Mentoring Junior Scientists
- Excellent verbal and written communication skills

Application Requirements

Document requirements

- Curriculum Vitae - Your most recently updated C.V.
- Cover Letter

Reference requirements

- 3 required (contact information only)

Apply link: https://aprecruit.berkeley.edu/JPF05234

Help contact: sdiamond@berkeley.edu

About UC Berkeley

UC Berkeley is committed to diversity, equity, inclusion, and belonging in our public mission of research, teaching, and service, consistent with UC Regents Policy 4400 and University of California Academic Personnel policy (APM 210 1-d). These values are embedded in our Principles of Community, which reflect our passion for critical inquiry, debate, discovery and innovation, and our deep commitment to contributing to a better world. Every member of the UC Berkeley community has a role in sustaining a safe, caring and humane environment in which these values can thrive.

The University of California, Berkeley is an Equal Opportunity 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.

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For more information, please refer to the University of California's Affirmative Action and Nondiscrimination in Employment Policy and the University of California's Anti-Discrimination Policy.

In searches when letters of reference are required 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 prior to submitting their letter.

As a University employee, you will be required to comply with all applicable University policies and/or collective bargaining agreements, as may be amended from time to time. Federal, state, or local government directives may impose additional requirements.

Unless stated otherwise, unambiguously, in the position description, this position does not include sponsorship of a new consular H-1B visa petition that would require payment of the $100,000 supplemental fee.

As a condition of employment, the finalist will be required to disclose if they are subject to any **final** administrative or judicial decisions within the last seven years determining that they committed any misconduct.

- "Misconduct" means any violation of the policies or laws governing conduct at the applicant's previous place of employment, including, but not limited to, violations of policies or laws prohibiting sexual harassment, sexual assault, or other forms of harassment or discrimination, as defined by the employer.
- UC Sexual Violence and Sexual Harassment Policy
- UC Anti-Discrimination Policy
- APM - 035: Affirmative Action and Nondiscrimination in Employment

Job location
Berkeley, CA

To apply, visit https://aprecruit.berkeley.edu/JPF05234

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Direct Link: https://www.AcademicKeys.com/r?job=269536
Downloaded On: Dec. 19, 2025 10:28pm
Posted Dec. 18, 2025, set to expire Jan. 16, 2026

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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