

Assistant/Associate Project Scientist - Computational
Genomics - Integrative Biology - Peter Sudmants lab
University of California Berkeley

Direct Link: <https://www.AcademicKeys.com/r?job=248635>

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Posted Nov. 11, 2024, set to expire Dec. 10, 2024

Job Title	Assistant/Associate Project Scientist - Computational Genomics - Integrative Biology - Peter Sudmants lab
Department	Integrative Biology
Institution	University of California Berkeley Berkeley, California
Date Posted	Nov. 11, 2024
Application Deadline	12/10/2024
Position Start Date	Available immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Biology - Genetics Biology - General Biology - Computational Computer/Information Sciences
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Job Description

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Position overview

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Position title: 3394, Asst. Project Scientist, 3392 Assoc. Project Scientist

Salary range: The UC academic salary scales set the minimum pay determined by rank and step at appointment. See the following table 37B for the current salary scale for this position:

https://www.ucop.edu/academic-personnel-programs/_files/2024-25/july-2024-scales/t37-b.pdf. A reasonable estimate for this position is \$78,000-\$94,300 annually.

Percent time: 100%

Anticipated start: December 1, 2024

Position duration: Two years with the possibility of extension based on performance and availability of funding.

Application Window

Open date: November 10, 2024

Next review date: Sunday, Nov 24, 2024 at 11:59pm (Pacific Time)

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

Final date: Tuesday, Dec 10, 2024 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 Sudmant lab in the Department of Integrative Biology at the University of California, Berkeley are seeking applications for an Assistant/Associate Project Scientist.

Position Overview:

The Sudmant lab studies genetic and molecular phenotypic diversity at both the organismal and cellular level. We study the evolution, causes, and consequences of aging as well as the evolution of genome structure and cellular diversity. Our lab analyzes, integrates, and generates massive-scale genomic datasets, a scientific approach that leverages computational biology and statistics as well as wet-lab and high-throughput experimental methods.

This position will focus on leading scientific projects pertaining to evolutionary biology, population

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genetics, conservation genetics, and bioinformatics using computational and statistical approaches. A major focus of the project scientist's work will be to lead and assist in projects related to structural variation evolution in various organisms, including rockfish, humans and non-human primates, as well as to study broad patterns of structural variation diversity across the tree of life.

Key Responsibilities Include:

- Lead research projects in the lab related to structural variation in various study systems by carrying out computational analyses
- Supervise other lab employees and undergraduate researchers, a maximum of one employee, as needed.
- Perform quantitative analyses of various forms of sequencing data, interpret, and present data
- Draft and publish scientific manuscripts outlining results
- Contribute to lab collaborative projects
- Contribute to grant writing and securing funding to support research

Specific Responsibilities include:

- Conceive, design, and execute studies to interrogate structural variation evolution in various organisms using a combination of publicly available and newly generated datasets.
- Work closely with collaborating labs to move projects forward.
- Publish and contribute to academic papers.

Qualifications

Basic qualifications (required at time of application)

PhD (or equivalent international degree).

Additional qualifications (required at time of start)

- 2+ years of post PhD research experience in an academic or industry research setting.
- Demonstrated record of productivity and publications.

Preferred qualifications

- Ph.D (or equivalent) in genetics, genomics, biology, computer science or related fields.
- Computational genomics skills especially related to the analysis of large, long-read and short-read genome sequencing datasets.
- Strong background in evolutionary biology, particularly regarding various forms of genetic

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variation and its relevance in adaptation and speciation in order to conceive, design, carry out, and troubleshoot evolutionary genomic projects, and to apply cutting-edge computational methods to analyze datasets.

- Extensive experience with analysis of short-read and long-read sequencing data of various quality in diverse study systems, familiarity with the analysis of single nucleotide variant and structural variant in the context of population and conservation genomic studies, and track record of mastering new techniques and technologies.
- Experience with interdisciplinary collaborations as well as demonstrated ability to mentor students, manage active collaborations with other academic groups, and work independently.
- Track record of developing and applying new computational and statistical methods tailored to analyzing novel datasets.
- Strong coding skills in Python and/or R.
- Excellent organizational management; demonstrated ability to multi-task within demanding time-frames, working both independently and as part of a team.
- Excellent oral and written communication skills and strong interpersonal skills.
- Experience with version control (e.g. git and GitHub), workflow management tools (e.g. Snakemake and Nextflow), and computer clusters.

Application Requirements

Document requirements

- Curriculum Vitae - Your most recently updated C.V.
- Cover Letter (Optional)
- Statement on Contributions to Diversity, Equity, Inclusion, and Belonging - Statement on your contributions to diversity, equity, inclusion, and belonging in research, teaching, and service, including information about your record of activities to date, and plans for contributing if hired at UC Berkeley. [More Information and guidelines.](#)

Reference requirements

- 3 required (contact information only)

Apply link: <https://aprecruit.berkeley.edu/JPF04585>

Help contact: n.singh@berkeley.edu

About UC Berkeley

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UC Berkeley is committed to diversity, equity, inclusion, and belonging. The excellence of the institution requires an environment in which the diverse community of faculty, students, and staff are welcome and included. Successful candidates will demonstrate knowledge and skill related to ensuring equity and inclusion in the activities of their academic position (e.g., teaching, research, and service, as applicable).

The University of California, Berkeley 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.

Please refer to the [University of California's Affirmative Action 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.

Job location

Berkeley, CA

To apply, visit <https://aprecruit.berkeley.edu/JPF04585>

Contact Information

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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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