

Assistant Project Scientist - Chemical Biologist -  
Innovative Genomics Institute  
University of California Berkeley

Direct Link: <https://www.AcademicKeys.com/r?job=236962>

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Posted Jun. 3, 2024, set to expire Jun. 30, 2024

<b>Job Title</b>	Assistant Project Scientist - Chemical Biologist - Innovative Genomics Institute
<b>Department</b>	Innovative Genomics Institute
<b>Institution</b>	University of California Berkeley Berkeley, California
<b>Date Posted</b>	Jun. 3, 2024
<b>Application Deadline</b>	06/30/2024
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Research Scientist/Associate
<b>Academic Field(s)</b>	Chemistry - General Biomedical Sciences Biology - Biochemistry Biology - General
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**Job Description**

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**Assistant Project Scientist - Chemical Biologist - Innovative Genomics Institute**

**Position overview**

**Salary range:** The posted UC academic salary scales (<https://www.ucop.edu/academic-personnel-programs/compensation/2023-24-academic-salary-scales.html>) set the minimum pay determined by

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rank and/or step at appointment. See the following table for the salary scale for this position:

[https://www.ucop.edu/academic-personnel-programs/\\_files/2023-24/july-2023-acad-salary-scales/t37-b.pdf](https://www.ucop.edu/academic-personnel-programs/_files/2023-24/july-2023-acad-salary-scales/t37-b.pdf). The base salary range, from the salary table, for this position is \$71,500 - \$91,000. Off-scale salaries' and other components of pay, which would yield compensation that is higher than the published system-wide salary at the designated rank and step, are offered when necessary to meet competitive conditions.

**Percent time:** 100%

**Position duration:** 1 year with the possibility of extension based on performance and availability of funds

**Application Window**

**Open date:** May 31, 2024

**Next review date:** Sunday, Jun 30, 2024 at 11:59pm (Pacific Time)

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

**Final date:** Sunday, Jun 30, 2024 at 11:59pm (Pacific Time)

Applications will continue to be accepted until this date.

**Position description**

The IGI is presently seeking a highly motivated Assistant Project Scientist to perform research on molecular systems enabling the therapeutic delivery of genome editing reagents. This interdisciplinary work will be performed as part of a team at UC Berkeley, centered in the laboratory of Ross Wilson, IGI Scientific Director of Therapeutic Delivery.

Specific research activities will involve chemical biology and nanomaterial science techniques to generate novel protein based delivery platforms supporting development of improved CRISPR-based genetic therapies. Major tasks will include material characterization, protein modification, chemical biology, quality assessment, and experimental design of in vitro and in vivo experiments.

The Project Scientist will also collaborate with IGI investigators at UCB, UCSF, and other IGI-affiliated universities in the effort to advance the delivery of genome editing for therapeutic use. In addition to their own efforts, this Project Scientist will guide genome editing efforts of one or more research technicians, postdoctoral scholars and/or graduate students. The Project Scientist will report directly to Ross Wilson.

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Duties for this position include:

- Obtain consistent and reliable data.
- Manage multiple projects and tasks in parallel in order to meet program-based milestones.
- Train one or more postdoctoral researchers, technicians and/or graduate students.
- Collaborate with principal investigators, postdocs, and students at partner universities and provide input to their research teams.
- Design and develop useful and practical intellectual property.
- Contribute to high-quality, high-impact publications in peer-reviewed journals.

Attend scientific and technical conferences to discuss accomplishments at the IGI and establish relationships with other leaders in the field.

### Qualifications

**Basic qualifications** (required at time of application)

PhD (or equivalent international degree) or enrolled in a PhD (or equivalent) program

**Additional qualifications** (required at time of start)

PhD (or equivalent international degree)

### Preferred qualifications

- Ph.D. or equivalent degree in Biomedical engineering, Bioengineering, Biochemistry or related discipline and a minimum of 2 years of post-doctoral and/or industrial experience in a relevant field.
- Demonstrated expertise in drug delivery and material design, including experience with bioconjugation chemistry: click chemistry, disulfide chemistry, etc.
- Understanding and knowledge of polypeptide design and synthesis.
- Proficiency in the characterization of nanomaterials, including aptitude in dynamic light scattering, zeta potential, and/or transmission electron microscopy techniques.
- Proficiency in analyzing and characterizing chemically modified proteins using techniques such as SDS-PAGE, Western blotting and Bradford assay.
- Proficient in the preparation of CRISPR ribonucleoprotein (RNP) complexes for genome editing experiments as well as genetic manipulation of mammalian cells using site-specific endonucleases.
- Experience in assessing genetic manipulation and cell specific delivery through in vitro and in vivo assays such as DNA sequencing (e.g. Sanger, amplicon-based NGS) and/or flow cytometry.
- Experience with tissue culture of mammalian cell lines, neuron derived cultures, and primary cells

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relevant to genetic therapeutic development (e.g. primary hepatocytes, SH-SY5Y cells, primary fibroblasts) as well as pertinent animal models (e.g. Ai9, Ai14, or various disease models).

- Experience using high-throughput screening of reagents for genome editing efficiency.
- Demonstrated ability to effectively communicate with, to efficiently work with, and to maintain external collaborations with a diverse group of researchers.
- Must be innovative and able to synergize various ideas and approaches, while exercising sound judgment to evaluate and take acceptable risks.
- Ability and willingness to travel occasionally as required.

## Application Requirements

### Document requirements

- Curriculum Vitae - Your most recently updated C.V.
- Cover Letter
- Statement of Research
- Statement on Contributions to Advancing Diversity, Equity, and Inclusion - Statement on your contributions to diversity, equity, and inclusion, including information about your understanding of these topics, your record of activities to date, and your specific plans and goals for advancing equity and inclusion if hired at Berkeley. [More Information and guidelines.](#)

### Reference requirements

- 3 required (contact information only)

Apply link: <https://aprecruit.berkeley.edu/JPF04450>

Help contact: [rosswilson@berkeley.edu](mailto:rosswilson@berkeley.edu)

### About UC Berkeley

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).

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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/JPF04450>

**Contact Information**

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

**Contact**

N/A

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