Associate/Full Project Scientist - Metabolic flux analysis, Stable Isotope Tracer Techniques and Mass Spectrometric Isotope Ratio Analysis - Nutritional Sciences & Toxicology Department University of California Berkeley

Job Title	Associate/Full Project Scientist - Metabolic flux analysis, Stable Isotope Tracer Techniques and Mass Spectrometric Isotope Ratio Analysis - Nutritional Sciences & Toxicology Department
Department	Nutritional Sciences & Toxicology
Institution	University of California Berkeley Berkeley, California
Date Posted	Dec. 16, 2024
Application Deadline	01/13/2025
Position Start Date	Available immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Toxicology Nutrition and Dietetics
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Job Description

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Position overview

Salary range: The UC academic salary scales set the minimum pay determined by rank and step at

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appointment. See the following table(s) for the current salary scale(s) 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 $90,100-130,000.

Percent time: 75%

Anticipated start: Spring 2025

Position duration: One year with the possibility of extension based on performance and availability of funding.

Application Window
Open date: December 12, 2024

Next review date: Friday, Dec 27, 2024 at 11:59pm (Pacific Time)
Apply by this date to ensure full consideration by the committee.

Final date: Monday, Jan 13, 2025 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 Nutritional Sciences & Toxicology Department at the University of California, Berkeley seeks applications for an Associate/Full Project Scientist in the Hellerstein Lab, in the area of metabolic flux analysis, stable isotope tracer techniques, and mass spectrometric isotope ratio analysis.

The Hellerstein lab develops novel stable isotope-mass spectrometric techniques for measuring important biochemical, physiologic, and cellular processes in living organisms, including humans. These measurements are used as clinical biomarkers of health and disease and in the basic investigation of metabolic control and integration in complex systems. Our work centers on in vivo metabolic flux analysis, which differs from most contemporary biomedical research in several ways: technically by adding the dimension of time, operationally by requiring dynamic systems analytic methods, and conceptually by integrating disparate control factors in the final readout.

Our laboratory is not defined by traditional disciplines but, by generating new methods, covers fields including metabolic disease, immunology, molecular/ molecular biology, exercise, aging, flux proteomics and metabolic fluxomics, neurobiology, and cancer.

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The successful candidate will have access to multiple departments, including molecular and cell biology, integrative biology, statistics, and the Center for Computational Biology, in addition to many research collaborations around the country and internationally.

The position will be responsible for analyzing different metabolic systems and devising optimal flux analysis experimental approaches for a wide variety of questions and biomedical projects.

Specific Duties include:

- Designing and executing experiments involving stable isotope tracers and in vivo flux analysis.
- Data management, and data analysis, including simulation modeling
- Manuscript preparation.
- Present research at international conferences (as oral presentations/posters), peer-reviewed journals (as manuscripts), and on Zoom calls (as PowerPoints)
- Peer-reviewed journals.
- Contributing to grant proposals.
- Mentoring students.
- Keep detailed records of experiments performed, conclusions made, and communication of results orally and through lab notebook records.

Qualifications
Basic qualifications (required at time of application)
PhD (or equivalent international degree)

Additional qualifications (required at time of start)
At least 6 years of applicable work experience.

Preferred qualifications

1. Experience with designing and executing experiments involving stable isotope tracers and in vivo flux analysis. Flux analyses include data modeling (simulations, computer models), mass spectrometric research and innovations, and deep familiarity with principles of tracer analysis, including combinatorial analysis of mass isotopomers.
2. Experience in metabolic flux analysis, including in vivo tracer study design and complex modeling of metabolic systems (SAAM, other models).
3. Skills and experience with manuscript preparation, presenting research, contributing to grant proposals, and mentoring students are required.
4. Excellent writing and communication skills and a strong publication record in peer-reviewed

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Application Requirements

Document requirements

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

Reference requirements

- 1-3 required (contact information only)

Apply link: https://aprecruit.berkeley.edu/JPF04727

Help contact: march@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).

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.

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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/JPF04727

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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