

Laboratory Assistant 2 (9603C) - 9205
University of California Berkeley

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Posted Jul. 23, 2020, set to expire Nov. 19, 2020

Job Title	Laboratory Assistant 2 (9603C) - 9205
Department	
Institution	University of California Berkeley Berkeley, California
Date Posted	Jul. 23, 2020
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Classified Staff
Academic Field(s)	Research/Technical/Laboratory
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Job Description

Laboratory Assistant 2 (9603C) - 9205
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 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,

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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 [\[url=https://apptrkr.com/get_redirect.php?id=1963770&targetURL=https://strategicplan.berkeley.edu/guiding-values-and-principles/\]](https://apptrkr.com/get_redirect.php?id=1963770&targetURL=https://strategicplan.berkeley.edu/guiding-values-and-principles/)Guiding Values and Principles, our [\[url=https://apptrkr.com/get_redirect.php?id=1963770&targetURL=https://diversity.berkeley.edu/principles-community\]](https://apptrkr.com/get_redirect.php?id=1963770&targetURL=https://diversity.berkeley.edu/principles-community)Principles of Community, and [\[url=https://apptrkr.com/get_redirect.php?id=1963770&targetURL=https://strategicplan.berkeley.edu/\]](https://apptrkr.com/get_redirect.php?id=1963770&targetURL=https://strategicplan.berkeley.edu/)our Strategic Plan[\[url=https://apptrkr.com/get_redirect.php?id=1963770&targetURL=https://strategicplan.berkeley.edu\]](https://apptrkr.com/get_redirect.php?id=1963770&targetURL=https://strategicplan.berkeley.edu).

Application Review Date

The First Review Date for this job is: August 4, 2020

Departmental Overview

The Niyogi Lab studies photosynthetic energy conversion and its regulation in algae and plants.

The lab's long-term research goals are to understand how photosynthesis works, how it is regulated, and how it might be improved to help meet the world's needs for food and fuel.

The lab uses a wide array of experimental organisms (cyanobacteria, eukaryotic algae, and plants) and interdisciplinary approaches to investigate fundamental questions about the assembly, regulation, and dynamics of photosynthesis. Current lab members study the biosynthesis and function of photosynthetic pigments, assembly and repair of photosynthetic reaction centers, structure and dynamics of the photosynthetic membrane, mechanisms involved in sensing excess light, singlet oxygen signaling, transcriptional regulation of photosynthesis and photoprotection by light and carbon, and regulation of photosynthetic light harvesting in saturating light. By comparing how photosynthesis works in diverse organisms, we hope to uncover general design principles of natural photosynthesis as well as unique adaptations to different environments.

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Responsibilities

- * Grow and maintain algal strains and plants including *Chlamydomonas reinhardtii*, *Arabidopsis*, *Brachypodium*, tobacco and rice and monitor overall health and contamination of strains in a timely manner.
- * Generation and maintenance of *Brachypodium* callus by embryo dissection.
- * Perform molecular biology experiments to assist studies of specific algal and plant genes including but not limited to, cloning genes, transformation of algal and plant strains to study gene function, crossing algal and plant strains to study relationship between genes, extraction of genomic DNA and genotyping by PCR, RNA quantification using RT-qPCR, and immunoblotting.
- * Physiologically phenotype and screen plants using methods including, but not limited to, HPLC analysis to determine pigment and tocopherol content, chlorophyll fluorescence measurement to evaluate photosynthetic properties and non-photochemical quenching, gas exchange analysis, enzyme kinetic assays, testing sensitivity to abiotic stress and/or chemicals, and metabolite content assay in plant tissues including triacylglycerides, sugars, and starch.
- * Participate in the development and optimization of abiotic stress treatments for algae and plants.
- * Assist Lab Manager with maintenance of general lab supplies, such as sterilizing glassware and plasticware and media preparation.
- * Provide support to Lab Manager as needed, for example, when new equipment arrives, during equipment relocation, to fill in when work-study student is unable to fulfill their duties.
- * Attend group meetings, and assist other researchers in the lab as needed.
- * Keep accurate and detailed records of laboratory work (protocols and results) to ensure that results could be replicated by others.
- * Manage data on algal and plant strains.
- * Give oral presentations at laboratory meetings.

Required Qualifications

- * Proficiency in MS Word, Excel and PowerPoint required.
- * Basic lab skills, preparing solutions, and sterile technique required.
- * Knowledge and abilities essential to the successful performance of the duties assigned to the position.
- * Graduation from high school or a General Education Diploma and one year of laboratory experience or two years of college including courses in the natural, physical or social sciences; and/or an equivalent combination of education and experience/training.

Preferred Qualifications

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- * Basic understanding of algal and plant biology and photosynthesis preferred.
- * Bachelor's degree in biology-related areas strongly preferred and/or equivalent education or experience/training.

Salary & Benefits

This position is a non-exempt, bi-weekly paid position. Hourly pay for this role is commensurate with experience.

For information on the comprehensive benefits package offered by the University visit:

[url=https://apptrkr.com/get_redirect.php?id=1963770&targetURL=https://ucnet.universityofcalifornia.edu/compensation-and-benefits/index.html]https://ucnet.universityofcalifornia.edu/compensation-and-benefits/index.html

How to Apply

Please submit your cover letter and resume as a single attachment when applying.

Other Information

This position is governed by the terms and conditions in the agreement for the Technical Unit (TX) between the University of California and the University Professional and Technical Employees (UPTE). The current bargaining agreement manual can be found at:

[url=https://apptrkr.com/get_redirect.php?id=1963770&targetURL=http://ucnet.universityofcalifornia.edu/labor/bargaining-units/tx/index.html]http://ucnet.universityofcalifornia.edu/labor/bargaining-units/tx/index.html

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 see:

[url=https://apptrkr.com/get_redirect.php?id=1963770&targetURL=https://www.eeoc.gov/employers/upload/po

For the complete University of California nondiscrimination and affirmative action policy see:

[url=https://apptrkr.com/get_redirect.php?id=1963770&targetURL=http://policy.ucop.edu/doc/4000376/Nondis

To apply, visit



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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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