

PLAN FOR POSTDOCTORAL RESEARCHER POSITION IN PLB AND MALDONADO LAB

POSITION DESCRIPTION:

Postdoctoral Researcher position in the lab of Dr María Maldonado in the Department of Plant Biology in the College of Biological Sciences to carry out projects in biochemistry and structural biology. The selected candidate will lead independent research projects to understand the structure, evolution and molecular mechanism of mitochondrial and photosynthetic complexes and supercomplexes using single particle cryo-EM as a major approach. Projects will entail organelle isolation, membrane protein purification and performing biochemical, biophysical and spectroscopic assays and experiments. Additional duties and responsibilities include organization of notes, data, and analysis, presentation of data at weekly lab meetings, working with others on the team and basic lab maintenance jobs. The candidate will also train and mentor graduate and undergraduate students in the lab. The selected candidate will have received a PhD in biochemistry, biophysics, plant biology or structural biology. Demonstrated interest in structural biology is required. The ability to work independently in a fast-paced research environment is essential.

Responsibilities:

Research (90%)

- Design and carry out experiments using techniques including membrane protein purification and cryo-EM.
- Collect, analyze, and present data in group meetings and external conferences.
- Maintain detailed experimental records and notes.
- Work with the Principal investigator to prepare high-quality peer-reviewed manuscripts and grant submissions to pursue funding opportunities.
- Provide peer review and feedback on manuscripts and grants.

Lab management (10%)

- Provide technical support and mentoring for junior researchers.
- Contribute to lab maintenance and organization.

Basic Qualifications:

Graduate degree (PhD or equivalent) in biochemistry, biophysics, plant biology or structural biology with demonstrated interest and/or expertise in structural biology. Candidate also must be able to keep a complete and detailed laboratory notebook of experimental procedures and data and to archive and document reagents and data for publications, grant proposals, and presentations. Solid organizational skills, dependability and pro-activity are a must. Prior experience with membrane proteins, the characterization of protein complexes or knowledge of photosynthetic metabolism and methods is a plus. The ideal candidate will have strong interpersonal, communication, and decision-making skills and the ability to work well both independently and as a part of a team.

To apply: Qualified applicants should submit a CV, 2 reference, a Statement of Research, and a Statement of Contributions to Diversity, Equity and Inclusion, via this URL:

<https://recruit.ucdavis.edu/apply/JPF06099>. The deadline for full consideration is November 18, 2023.

Questions: Please direct questions to Dr. Maria Maldonado <mmaldo@ucdavis.edu>.

- The University of California, Davis commits to inclusion excellence by advancing equity, diversity and inclusion in all that we do. We are an Affirmative Action/Equal Opportunity employer, and particularly encourage applications from members of historically underrepresented racial/ethnic groups, women, individuals with disabilities, veterans, LGBTQ community members, and others who demonstrate the ability to help us achieve our vision of a diverse and inclusive community.
- Under Federal law, the University of California may employ only individuals who are legally able to work in the United States as established by providing documents as specified in the Immigration Reform and Control Act of 1986. Certain UC Davis positions funded by federal contracts or sub-contracts require the selected candidate to pass an E-Verify check. More information is available <http://www.uscis.gov/everify>.
- UC Davis is a smoke & tobacco-free campus (<http://breathfree.ucdavis.edu/>). If you need accommodation due to a disability, please contact the recruiting department