



INTERESTED IN A GREAT POST-PH.D. EXPERIENCE?
WITH MENTORING AND PROFESSIONAL DEVELOPMENT

POST-DOCTORAL OPPORTUNITIES

The Merchant Lab in the University of California
Berkeley's Institute for Quantitative Biosciences has
positions on 2 projects

Position 1: Mechanism of nutritional Cu signalling. Use reverse genetics, comparative genomics, metal sensors and reporters and biochemistry to understand how *Chlamydomonas* measures Cu availability. Reconstitute the *Chlamydomonas* Cu regulon in *Auxenochlorella*.

Funded by NIH

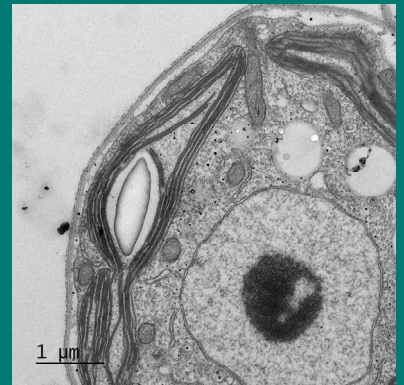
Position 2: Gene targeting for reverse genetics and synthetic biology in algae. Develop an oleaginous (oily) green alga, *Auxenochlorella*, as a platform for reverse genetics and synthetic biology. Use gene targeting and transgene expression to investigate trace metal metabolism, enhance photosynthesis, and produce designer lipids for bioenergy or nutrition.

Funded by DOE

Start dates flexible, summer or fall 2022

Other projects available

TRACE METAL
BIOLOGY
PHOTOSYNTHESIS
PLANT BIOLOGY
SYNTHETIC BIOLOGY
GENOMICS /
PROTEOMICS
GENE EXPRESSION



Transmission electron micrograph of *Chlamydomonas reinhardtii*, one of our favorite unicellular algae

Qualifications:

- Ph.D. in a chemical or life science with no more than 2 years post-Ph.D. experience.
- Documented publication record in peer-reviewed journals.
- **We are seeking respectful, compassionate teammates with enthusiasm for learning, curiosity about the natural world, and commitment to scientific integrity.**

To apply:

Contact sabeeha@berkeley.edu with:

- A cover letter (briefly describe your interests, educational path, and past scientific experiences, and indicate which position preferred)
- Your CV/resume with publication list
- Contact info for 3 references