



## Postdoctoral Researcher Position in Reactive Transport Modeling

We are seeking a postdoc with experience in reactive transport modeling to join our NSF-funded project, *Effects of environmental change on microbial self-organized patterns in Antarctic Lakes*. The successful candidate will be part of the research groups led by Dr. Xiaoli Dong (Department of Environmental Science and Policy, UC Davis) and Dr. Dawn Sumner (Department of Earth and Planetary Science, UC Davis). The project focuses on developing reactive transport models to investigate the mechanisms forming the morphology and spatial patterns of microbial communities on the floor of Antarctic lakes.

**Qualifications:** An ideal candidate will have expertise in at least one of following areas: reactive transport models, computational fluid dynamics, or theory of spatial pattern formation. The position is based at UC Davis.

**Start Date:** Negotiable, but preferably by **February 2025**.

**Duration and Salary:** The initial appointment is for one year, with the possibility of extension for an additional year based on satisfactory performance. The annual salary ranges from \$64,480 to \$77,327, depending on the candidate's experience. For more details on salary scales, please refer to the UCOP salary guidelines: [https://www.ucop.edu/academic-personnel-programs/\\_files/2023-24/oct-2023-acad-salary-scales/t23.pdf](https://www.ucop.edu/academic-personnel-programs/_files/2023-24/oct-2023-acad-salary-scales/t23.pdf)

**Responsibilities:** Under the guidance of the PIs, the postdoctoral researcher will develop and analyze reactive transport models to explore the mechanism driving the morphology and spatial patterns of benthic microbial communities in Antarctic lakes. These models will enhance our interpretation of ancient stromatolites in the geological records and improve our understanding of Earth's evolutionary and environmental history.

**How to apply:** Please email a cover letter describing your background and interests in the position, a CV, and contact information for three references to Dr. Xiaoli Dong at [xldong@ucdavis.edu](mailto:xldong@ucdavis.edu). Review of applications will begin on December 1, 2024, and the position will remain open until filled.

**Diversity and Inclusion:** UC Davis is committed to fostering a diverse and inclusive work environment. All applicants are protected under Federal law from discrimination based on race, color, religion, sex, national origin, disability, age, and genetics. UC Davis provides reasonable accommodations to applicants with disabilities. Applicants requiring a reasonable accommodation for any part of the application and hiring process should contact the Office of Equity by email at [dmshelp@ucdavis.edu](mailto:dmshelp@ucdavis.edu). Determinations as to granting reasonable accommodations for any applicant will be made on a case-by-case basis.