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Final Date: August 31, 2022



UNIVERSITY OF CALIFORNIA  
**SANTA CRUZ**

UNIVERSITY OF CALIFORNIA, SANTA CRUZ  
Institute of Marine Sciences  
Post-Doctoral Scientist

### DESCRIPTION

The Institute of Marine Sciences [<https://ims.ucsc.edu/>] at the University of California, Santa Cruz (UCSC) invites applications for a post-doctoral scientist with a focus on ecosystem modeling of coastal wetland restoration and nature based decarbonization, under the joint direction of **Dr. Adina Paytan at UCSC and Dr. Yu Zhang at Los Alamos National Laboratory (LANL), and co-mentored by Drs. David Moulton, Qinjun Kang, and Marie Kroeger at Los Alamos National Laboratory (LANL)**. The post-doctoral scientist will use established models, such as the Advanced Terrestrial Simulator (ATS), and include wetland process representations and parameterizations. After model benchmarking, the candidate will use the models to investigate how different coastal wetland restoration options and climate change will affect wetland hydrology and carbon balance.

The position will be based at the Los Alamos National Laboratory [<https://www.lanl.gov/>] in Los Alamos, NM and will work closely with other LANL and UCSC researchers.

Applicants with experience or expertise in the following areas are strongly encouraged to apply:

- Experience in mechanistic modeling of coastal ecosystem processes (encompassing hydrology, geochemistry, water and carbon cycling, and vegetation dynamics)
- Experience with processes related to hydrological cycle, nutrient transport, or reactive transport in wetlands
- Strong mathematical and numerical modeling skills
- Strong written and oral communication skills with significant motivation to publish in peer reviewed literature
- Strong interest in team-based interdisciplinary science, with the willingness and ability to work independently when required

### ACADEMIC TITLE

Postdoctoral Scholar

### SALARY

Commensurate with qualifications and experience with a starting annual salary of **\$67,250**. Minimum annual salary rates are made based on the individual's *Experience Level*, which is determined by the number of months of postdoctoral service at any institution. See current salary scale for Postdoctoral Titles at <https://apo.ucsc.edu/compensation/salary-scales/index.html>

## BASIC QUALIFICATIONS

- Ph.D. (or equivalent foreign degree) in earth science, climate science, ocean science, civil and environmental Engineering, coastal engineering, ecology, or a related field. It is expected the degree will be completed at time of application, but no later than June 30, 2022.
- Research experience in numerical modeling methods and in the science of land surface processes.

## POSITION AVAILABLE

As soon as possible after initial review of the applications. Ph.D. must be in hand at time of the initial appointment.

## MAXIMUM DURATION OF SERVICE IN A POSTDOCTORAL TITLE

Postdoctoral Scholar appointments are full-time; initial appointment will be for one year, with the possibility of reappointment for up to two years. Reappointment will be contingent upon positive performance review and availability of funding. The total duration of an individual's postdoctoral service may not exceed five years, including postdoctoral service at any institution. Under limited circumstances, an exception to this limit may be considered, not to exceed a sixth year.

## APPLICATION REQUIREMENTS

All documents and materials must be submitted as PDFs and should be emailed to Dr. Adina Paytan (apaytan@ucsc.edu), Dr. Yu Zhang (yuzhang@lanl.gov), Dr. David Moulton (moulton@lanl.gov), Dr. Qinjun Kang (qkang@lanl.gov), and Dr. Maria Kroeger (mkroeger@lanl.gov).

Please refer to Position [APO will insert] in all correspondence.

## Documents/Materials

- Letter of application that briefly summarizes your qualifications and interest in the position (required)
- Curriculum Vitae - Your most recently updated C.V., which must include past employment, education, research experiences, skills, and a list of publications (required)
- List of three professional references, which includes names and contact information (required)

## RECRUITMENT PERIOD

Full consideration will be given to applications completed by **June 1, 2022**. Applications received after this date will be considered only if the position has not been filled.

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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, age, or protected veteran status. UC Santa Cruz is committed to excellence through diversity and strives to establish a climate that welcomes, celebrates, and promotes respect for the contributions of all students and employees. Inquiries regarding the University's equal employment opportunity policies may be directed to the Office for Diversity, Equity, and Inclusion at the University of California, Santa Cruz, CA 95064 or by phone at (831) 459-2686.

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 UCSC positions funded by federal contracts or sub-contracts require the selected candidate to pass an E-Verify check (see <https://www.uscis.gov/e-verify>). The university sponsors employment-based visas for nonresidents who are offered academic appointments at UC Santa Cruz (see <https://apo.ucsc.edu/policy/capm/102.530.html>).

UCSC is a smoke & tobacco-free campus.

If you need accommodation due to a disability, please contact Disability Management Services at [roberts@ucsc.edu](mailto:roberts@ucsc.edu) (831) 459-4602.

UCSC is committed to addressing the spousal and partner employment needs of our candidates and employees. As part of this commitment, our institution is a member of the Northern California Higher Education Recruitment Consortium (NorCal HERC). Visit the NorCal HERC website at <https://www.hercjobs.org/regions/higher-ed-careers-northern-california/> to search for open positions within a commutable distance of our institution.

The University of California offers a competitive benefits package and a number of programs to support employee work/life balance. For information about employee benefits please visit <https://ucnet.universityofcalifornia.edu/compensation-and-benefits/index.html>

VISIT THE UCSC WEB SITE AT <https://www.ucsc.edu>

04/27/2022