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Erin O'Reilly (The Environmental Market Solutions Lab (emLab), UCSB (formerly Sustainable Fish)
Just now

Postdoctoral Researcher in Fisheries and Climate Change - UC Santa Barbara - Santa Barbara, CA

POSITION OVERVIEW
Position title: Postdoctoral Researcher in Fisheries and Climate Change
Salary: $64,480 to $77,327
Percent time: Full-time (100%)
Anticipated start: As soon as possible after initial review of the applications. Ph.D. must be in hand at the time of initial appointment.
Position duration: Initial appointment is for a minimum of two years, with the possibility of reappointment. The total duration of an individual's postdoctoral service may not exceed five years, including postdoctoral service at any institution.

APPLICATION WINDOW
Open date: November 1, 2023
Due date: December 30, 2023 at 11:59pm (Pacific Time)
Apply by this date to ensure full consideration.

POSITION DESCRIPTION
The Free Lab at the University of California, Santa Barbara is seeking a postdoctoral researcher to support a NOAA Multi-Stressor Grant-funded project aiming to understand the joint impacts of warming, hypoxia, acidification, and harmful algal blooms on Dungeness crab, which supports the US West Coast's most valuable commercial fishery, and to design climate-resilient management of the crab fishery. The project team includes 18 scientists from eight institutions with disciplinary expertise spanning oceanography, physiology, and population dynamics and is advised by tribal, industry, and agency stakeholders to ensure that our science is relevant, useful, and impactful.

The overall project seeks to: (1) synthesize extensive region-wide observations of ocean acidification, hypoxia, harmful algal blooms, and heat waves; (2) adapt ocean models to forecast changes in these stressors; and (3) use field and lab studies to parameterize the sensitivity of Dungeness crabs to these stressors. Ultimately, these activities will inform (4) a management strategy evaluation to assess the ability of different fishery management strategies to support a healthy crab fishery in a changing ocean.

The postdoctoral researcher will lead the development of the climate-linked management strategy evaluation model (Project Goal 4). The management strategy evaluation model will leverage detailed fisheries-dependent data from California, Oregon, and Washington and a modeling framework developed by Free et al. (2023). The postdoctoral researcher will lead the publication of the model and its results in a scientific journal.

The postdoctoral researcher will also lead the development of an R package for fitting a flexible and easy-to-use version of the Bayesian depletion estimator developed by Richerson et al. (2020) to estimate Dungeness crab population size. The R package and accompanying paper will ease the application of such models by any scientist working in data-limited derby fisheries. The postdoctoral researcher will lead workshops to train agency scientists in the use of the model for hindcasting pre-season male population size.

The postdoctoral researcher will have the opportunity to co-develop and co-write grant proposals, especially ones related to climate-ready fisheries management on the US West Coast. The researcher will also have the opportunity to mentor graduate students working in the Free Lab at UC Santa Barbara.
The research work will be conducted solely in California and the on-site work location is in Santa Barbara, California.
Salary is competitive, commensurate with the applicant's qualifications.
The position is available immediately and will be open until filled.
The Department is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching and service as appropriate to the position.

QUALIFICATIONS

Basic qualifications (required at time of application)

Applicant must have a Ph.D. (or equivalent foreign degree) or be enrolled in a PhD program in fisheries science, marine ecology, oceanography, or a related field at time of application. Applicant should also have:

- Ability to work independently, to be self-motivated, and to cooperate with others.
- Strong communication, organizational, and problem-solving skills. Proficiency in both written and oral English.

Additional qualifications (required at time of appointment)

PhD in fisheries science, marine ecology, oceanography, or a related field at time of appointment.

Desired qualifications

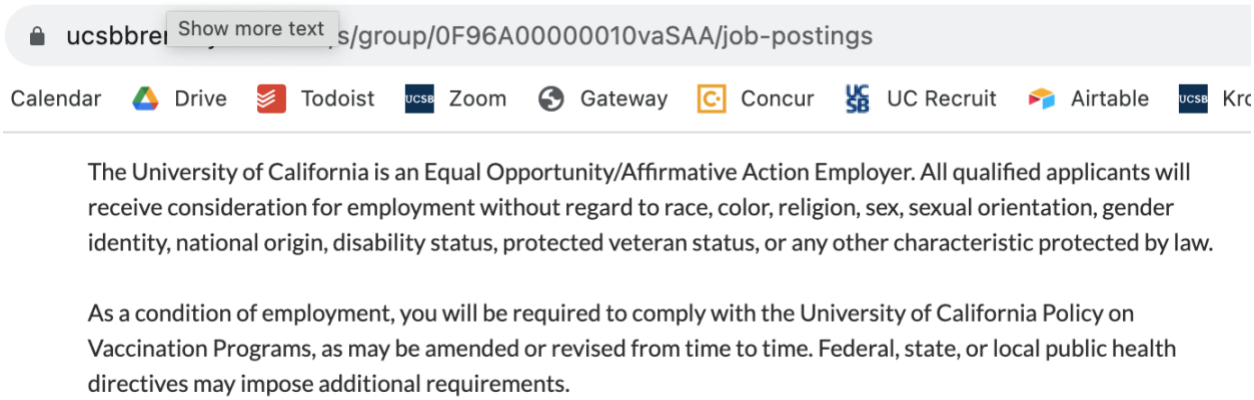
Successful applicants will have experience with one or more of the following:

- Fitting population and fleet dynamics models to data
- Conducting fisheries management strategy evaluations
- Working with Earth System Model output
- Conducting transparent, reproducible, and open-source science

APPLICATION REQUIREMENTS

Document requirements

- Curriculum Vitae - Your most recently updated C.V., which must include a list of publications.
- Cover Letter - Letter that briefly summarizes your qualifications for the project.
- List of Professional References - Provide the names and contact information for a minimum of three professional references (a maximum of five will be accepted). The committee will contact the references for applicants who are under serious consideration.



Note: the URL domain has changed but the screenshots above are still on BrenConnect.