



TEXAS A&M UNIVERSITY  
Rangeland, Wildlife  
& Fisheries Management



# Natural Resources Job Board

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## Postdoctoral Researcher in Fisheries and Climate Change

University of California, Santa Barbara (State) | <http://www.ucsb.edu>

### Details

Posting: <https://recruit.ap.ucsb.edu/JPF02658>

Application Deadline: 12/22/2023

Starting Date: before 4/1/2024

Hours per Week: 40

Salary: \$64,480 to \$77,327 per year

Education Required: Doctorate

Experience Required: at least 5 years

Location: Santa Barbara, California

Tags: Faculty / Post-Doc Appointments

### Description

[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-

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

## 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.

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 status, protected veteran status, or any other characteristic protected by law.

As a condition of employment, you will be required to comply with the University of California Policy on Vaccination Programs, as may be amended or revised from time to time. Federal, state, or local public health directives may impose additional requirements.

### Contact

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