

## **Multiple Postdoctoral Scholar Positions in Climate Effects on Fisheries**

The University of California, Santa Cruz, in collaboration with the National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Services, seeks three Postdoctoral Scholars: one in Ocean Modeling, a second in Fisheries Science/Management Strategy Evaluation, and a third in Socioeconomic Analysis. These complementary positions will assist with the development of an end-to-end framework to identify climate-resilient fisheries management strategies for the California Current Large Marine Ecosystem (CCLME) and to evaluate the impacts of climate variability and change on fishing communities and key US-managed fisheries in the region. The positions will be based at the NOAA Southwest Fisheries Science Center (SWFSC) labs in Monterey, CA (for the Ocean Modeler position) and La Jolla, CA (for the Fisheries Science/Management Strategy Evaluation and Socioeconomic Analysis positions). The postdoctoral scholars will work in partnership with federal and academic collaborators from multiple institutions including UC Santa Cruz, Rutgers, U South Carolina, and the SWFSC labs in Monterey and La Jolla.

The anticipated start date for these positions is October 1, 2017 (negotiable). Initial appointments are for 1 year, with reappointment up to three years pending performance review and funding availability. The positions will remain open until filled. To ensure full consideration, applications should be submitted by Aug. 28, 2017.

Details for each position are as follows:

### **Postdoctoral Scholar in Ocean Modeling**

The postdoctoral scholar in Ocean Modeling will work on seasonal forecasting and long-term projections of the California Current System using the Regional Ocean Modeling System (ROMS) forced by global climate models. These efforts are part of broader interdisciplinary projects aimed at developing improved fisheries management strategies for the California Current System on seasonal to centennial timescales.

**BASIC QUALIFICATIONS:** Ph.D. in physical oceanography or related discipline; strong quantitative skills; experience in numerical ocean modeling (preferably with ROMS); ability to synthesize model output and observational data; proficiency in programming languages such as MATLAB, R, or Python; willingness for collaboration with other postdoctoral researchers, students, and NOAA and University scientists; demonstrated ability to summarize scientific findings in the form of written manuscripts and oral presentations.

**PREFERRED QUALIFICATIONS:** Experience developing and ideally leading research analyses; familiarity with climate models and climate data; knowledge of statistical downscaling techniques; proficiency with multivariate and spatial statistics.

**LOCATION:** Monterey, California

**TO APPLY:** Submit as a single PDF: (1) a letter of application that addresses how you meet the basic and preferred qualifications, (2) a curriculum vitae, (3) one to three representative publications, and (4) names and contact information of three references. Applications can be sent directly to Mike Jacox ([mjacox@ucsc.edu](mailto:mjacox@ucsc.edu)) and Steven Bograd ([steven.bograd@noaa.gov](mailto:steven.bograd@noaa.gov)). Please specify in your email that you are applying for the Ocean Modeling position.

### **Postdoctoral Scholar in Fisheries Science/Management Strategy Evaluation**

The Postdoctoral Scholar in Fisheries Science/Management Strategy Evaluation will be responsible for a) assisting in the development of a Management Strategy Evaluation framework for Pacific sardine, Albacore tuna, and swordfish, b) evaluating current catch advice and spatial management strategies given the potential future impacts of climate variability and change, and c) assisting in the development and evaluation of novel climate-resilient management strategies for these species.

**BASIC QUALIFICATIONS:** Ph.D. in Fisheries Science, Quantitative Ecology, Biology, Zoology, Biological Oceanography, Mathematics, Statistics, or Computer Science; knowledge of fisheries population dynamics and population dynamics modelling; strong quantitative skills; proficiency with advanced statistics and data analysis; proficiency in programming languages such as R, MATLAB, or Python; willingness for collaboration with other postdoctoral researchers, students, and NOAA and University scientists; demonstrated ability to summarize scientific findings in the form of written manuscripts and oral presentations.

**PREFERRED QUALIFICATIONS:** Experience developing and ideally leading research analyses; experience conducting management strategy evaluations; familiarity with stock assessment models; familiarity with climate models and climate data; knowledge of multivariate and spatial statistics.

**LOCATION:** La Jolla, California

**TO APPLY:** Submit as a single PDF: (1) a letter of application that addresses how you meet the basic and preferred qualifications, (2) a curriculum vitae, (3) one to three representative publications, and (4) names and contact information of three references. Applications can be sent directly to Desiree Tommasi (Desiree.Tommasi@noaa.gov) and Mike Jacox (mjacox@ucsc.edu). Please specify in your email that you are applying for the Fisheries Science/Management Strategy Evaluation position.

### **Postdoctoral Scholar in Socio-economic Analysis**

The Postdoctoral Scholar in Socio-economic Analysis will be responsible for a) assisting in the development of a Management Strategy Evaluation (MSE) framework for Pacific sardine, Albacore tuna, and swordfish, b) working collaboratively with other researchers in multiple disciplines to develop socio-economic analysis for integration to the MSE framework, c) assisting with production and interpretation of socio-economic analysis for MSE scenarios, d) communication of socio-economic analysis results in the form of written manuscripts and oral presentations.

**BASIC QUALIFICATIONS:** Ph.D. in Agricultural and Resource Economics or in Economics with specialization in natural resources; knowledge of applied socioeconomic modeling and analysis; strong quantitative skills; proficiency with advanced statistics and data analysis; proficiency in programming languages such as R, MATLAB, or Python; willingness for collaboration with other postdoctoral researchers, students, and NOAA and University scientists; demonstrated ability to summarize scientific findings in the form of written manuscripts and oral presentations.

**PREFERRED QUALIFICATIONS:** Experience developing and ideally leading socio-economic analyses; experience in economic modeling or analysis of natural resource systems; familiarity with the economics of fisheries; familiarity with climate models and climate data; knowledge of multivariate and spatial statistics.

**LOCATION:** La Jolla, California

**TO APPLY:** Submit as a single PDF: (1) a letter of application that addresses how you meet the basic and preferred qualifications, (2) a curriculum vitae, (3) one to three representative publications, and (4) names and contact information of three references. Applications can be sent directly to Stephen Stohs (Stephen.Stohs@noaa.gov) and Mike Jacox (mjacox@ucsc.edu). Please specify in your email that you are applying for the Socioeconomic Analysis position.

*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, 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.*