Multiple Postdoctoral Scholar Positions in Ecology and Oceanography of the California Current

The University of California, Santa Cruz, in collaboration with the National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Services, seeks two Postdoctoral Scholars: one in Quantitative Ecology, and a second in Physical Oceanography. These complementary positions will help with ongoing projects (i) analyzing fisheries and top predator data, (ii) analyzing oceanographic datasets in support of fisheries management, (iii) synthesizing ecosystem data in support of Integrated Ecosystem Assessments, and/or (iv) running and analyzing ocean/ecosystem models for historical, near-real-time, seasonal forecasting, and climate projection applications. The position(s) will be based at the NOAA/SWFSC laboratory in Monterey, California. The successful candidate(s) will initiate projects and partnerships with federal and academic collaborators and be able to: write code, perform advanced statistics and data analysis, and summarize scientific findings in the form of written manuscripts and oral presentations. Responsibilities also include serving as primary and co-author on peer reviewed manuscripts, helping write project reports for funding agencies, and co-writing grant proposals to continue and develop new projects that are NOAA relevant. Selected candidate(s) will be collaborating with postdoctoral researchers, research staff, students, and NOAA scientists.

The anticipated start date for these positions is March 1, 2020 (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 January 31st, 2020.

Details for each position are as follows:

<u>Postdoctoral Scholar in Quantitative Ecology</u>

The postdoctoral scholar in Quantitative Ecology will work on existing projects including running statistical models to understand spatial and temporal patterns of habitat use of highly migratory marine species, understanding the role of oceanography and prey in structuring habitat use and movement, and assessing ecological model skill based on seasonal forecasting and long-term projections of the California Current System. These efforts are part of broader interdisciplinary projects aimed at developing marine biodiversity observation networks in the Atlantic and Pacific, and improved fisheries management strategies for the California Current System on seasonal to centennial timescales.

BASIC QUALIFICATIONS: Ph.D. in Ecology, Biology, Earth Sciences, Environmental Studies, Statistics, or Computer Science; experience working with oceanographic and/or ecological datasets; knowledge of oceanography, ecology, and/or marine ecosystem dynamics; strong quantitative skills; ability to synthesize multiple streams of oceanographic or ecological data; 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; strong writing skills; 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 Elliott Hazen (Elliott.hazen@noaa.gov) and Steven Bograd (steven.bograd@noaa.gov). Please specify in your email that you are applying for the Quantitative Ecology position.

Postdoctoral Scholar in Physical Oceanography

The postdoctoral scholar in Physical Oceanography will work on improving understanding of California Current System dynamics across timescales including historical analyses, seasonal forecasts, and long-term projections. The candidate will work with global climate and earth system models, regional ocean models, and observational datasets. Specific research areas include (but are not limited to) sources of predictability off the U.S. west coast, drivers of long-term change in global climate and regional ocean models, responses of the coastal ocean to climate variability, and impacts of ocean variability and change on the chemistry and biology of the CCS from phytoplankton to top predators. 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; 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 in numerical climate and/or ocean modeling; 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 (michael.jacox@noaa.gov) and Steven Bograd (steven.bograd@noaa.gov). Please specify in your email that you are applying for the Physical Oceanography 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.