

Postdoctoral Research Scholar: Integrated population models to inform Tribal management of Chinook salmon

Agency: Oregon State University

Location: Corvallis, Oregon, USA

Job Category: Postdoctoral Research Scholar

Salary: \$4,707–\$4,966/month depending on experience

Expected Start Date: December 4, 2023 (flexible)

Application Deadline: October 16, 2023

To Apply: Please email a cover letter, CV, and copies of academic records in a single PDF file to Melanie Davis (melanie.davis@oregonstate.edu) and Isa Woo (iwoo@usgs.gov). Priority will be given to candidates who apply prior to the application deadline, but the position will remain open until a suitable candidate is found. All applications will be acknowledged electronically. Those selected for consideration will be asked to provide letters of recommendation.

Oregon State University is committed to a culture of civility, respect, and inclusivity. As an Affirmative Action/Equal Opportunity employer, OSU values diversity in our faculty and staff regardless of their self-identity; to that end, we particularly encourage applications from members of historically underrepresented racial/ethnic groups, individuals with disabilities, veterans, women, LGBTQ community members, and others who demonstrate the ability to help us achieve our vision of a diverse and inclusive community.

Description: The Oregon Cooperative Fish and Wildlife Research Unit in the Department of Fisheries, Wildlife, and Conservation Sciences at OSU seeks a full time (1.0 FTE) Postdoctoral Research Scholar in cooperation with the U.S. Geological Survey and Nisqually Indian Tribe. The position will satisfy the following project objectives using data from the Nisqually River Delta in southern Puget Sound, Washington, USA:

- 1) Derive spatially explicit carrying capacity estimates to inform wild Chinook salmon recovery goals and hatchery management strategies **(25%)**
- 2) Use an integrated population model to estimate Chinook salmon population parameters under different management and climate change scenarios **(50%)**
- 3) Develop a resource guide and decision support tool for restoration practitioners in Puget Sound **(25%)**

The Postdoctoral Scholar is expected to serve for a full term of two years and will be supervised by Dr. Melanie Davis (Oregon Cooperative Fish and Wildlife Research Unit) and Isa Woo (USGS Western Ecological Research Center). *Salary (\$4,707–\$4,966/month)* will be commensurate with the qualifications of the successful applicant, and the position includes full benefits as an OSU employee. Start date is negotiable, but candidates who can start by December 2023 will be preferred.

Qualifications: Applicants must currently hold or have completed all the requirements for a PhD in fisheries, wildlife biology, quantitative ecology, or a related field. Applicants must also have: 1) a strong quantitative background, preferably with experience applying integrated population models, age structured population models, stock-recruitment functions, state-space models, spatially explicit models, and using Bayesian methods, 2) a demonstrated record of sharing their research in peer-reviewed outlets, and 3) excellent communication skills and the ability to effectively work with agency collaborators and stakeholders. Other desired qualifications include: a background in fisheries ecology and management with a particular focus on hatchery production, commercial harvest practices, and/or coastal habitat restoration; experience using bioenergetics and/or individual-based models; an interest in Tribal fisheries management; experience facilitating workshops to gauge stakeholder needs and values. Periodic travel to visit the field site and meet with collaborators in Olympia, Washington will be required.