



Oregon State University
Cascades

**Human and Ecosystem
Resilience and Sustainability
Lab**

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Restoration Ecology in Protected Area Sagebrush Steppe

Postdoctoral Scholar position with the Human and Ecosystem Resilience and Sustainability Lab (HERS), Oregon State University, Bend, Oregon

The Oregon State University Human and Ecosystem Resilience and Sustainability (HERS) Lab is a research institution co-led by OSU Cascades and the National Park Service (NPS) that delivers expertise in ecological assessment and monitoring, restoration, and native plant materials to support evidence-based conservation for the 21st century. The HERS Lab hosts the Upper Columbia Basin Inventory and Monitoring Network of the National Park Service (UCBN), East Cascades Native Plant Hub (ECNPH), and the Northwestern Bat Hub on the OSU Cascades campus in Bend, OR. The Lab is hiring one Post Doctoral Scholar for a 12-month 1.0 FTE appointment, with a possibility for extension subject to availability of funds and/or project requirements.

This Restoration Ecology Postdoctoral Scholar position is embedded within the ECNPH to conduct research to identify, guide implementation of, and evaluate best practices that enhance ecological resilience of intact (i.e., core) and quasi-intact sagebrush steppe ecosystems, including restoration of perennial herbaceous understory where necessary, in and around high-priority National Park units such as Craters of the Moon National Monument and Preserve and City of Rocks National Reserve. The program of study will require the development of an integrated approach that spans multiple spatial and temporal scales, is highly adaptive, and responsive to a suite of aligned goals and decision frameworks including the interagency (WAFWA) sagebrush conservation strategy and associated sagebrush conservation design and the Society for Ecological Restoration's International Standards for the Practice of Ecological Restoration. A specific goal is to explore ways to quantify resiliency and restoration success that can inform the Society of Ecological Restoration's 5-star recovery wheel and other evaluation frameworks. This challenge provides an opportunity to integrate existing long-term surveillance monitoring conducted by National Park Service and others (e.g., Bureau of Land Management and US Geological Survey) with emerging high-resolution remote sensing datasets and hypothesis-driven effectiveness monitoring of specific resiliency and restoration treatments.

The incumbent will work within a broad team of affiliated scientists and managers from different agencies and organizations. Specific responsibilities include co-production of study and treatment experimental design and effectiveness monitoring with partners, ecological translation of best practices and research findings to managers, reproducible data analysis for colleagues, and publication of research results in peer-reviewed scientific journals and other outlets including oral and web-based outreach and science communication. The incumbent will be hosted by the Oregon State University – Cascades Human & Ecosystem Resilience & Sustainability Lab and its East Cascades Native Plant Hub, co-located with

National Park Service project staff. The incumbent, like all lab members is expected to help maintain a supportive collegiate environment.

The Postdoctoral Scholar will work independently, under the mentorship of an advisory team (Dr. Matt Shinderman, Dr. Tom Rodhouse) led by an OSU professorial faculty member (Dr. Matt Orr), and as part of a team on a program of study in support of National Park Service (NPS) and partner land management agency goals to enhance the resiliency of managed landscapes. Priorities will be identified collaboratively with NPS, collaborating agency partners, and HERS Lab colleagues. The incumbent will have broad authority to direct analyses and recommend strategies for efficient and effective science communication and information delivery, schedule meetings, request data and support from collaborators, including the assignment of tasks to others when necessary. Day-to-day decisions will be made by the incumbent with approval by the project PI and/or NPS as necessary.

Additional, preferred qualifications include:

Demonstrated ability to write manuscripts

Background/interest in sagebrush ecosystem restoration

Strong statistical background and familiarity with modeling in a Bayesian framework

Location: Bend, Oregon

Appointment: 100%

Basis: 12 months

Start Date: July 1, 2024

Notes on Start Date: open until filled.

Notes on End Date: one year from start date with possible renewal for 2nd year.

Salary will follow current NIH NRSA scale

(<https://gradschool.oregonstate.edu/postdocs/stipends-and-benefits>). Candidate must be within 5 years of obtaining their PhD to be a postdoc scholar. Information about postdoctoral scholars at OSU can be found at <https://gradschool.oregonstate.edu/postdocs>.

For additional information, contact Matt Shinderman at matt.shinderman@osucascades.edu. To apply, send Matt a cover letter that describes your interests and background, a CV, and contact information for three references.