

Title: Research position -- Postfire Forest Ecology Modeling

Job Duties: We invite applications for a research scholar to lead modeling and online tool development of postfire conditions to project how forest ecosystems and their associated fire regimes in the Oregon Cascades will respond to future changes in climate and fire, as well as to current and emerging land management strategies. The primary duties of this position are synthesizing existing (old and new) and ongoing postfire and post-reburn forest development research for integration, parameterization, and validation of a simulation modeling framework (LANDIS-II). The candidate will work closely with multiple federal and state-level practitioners and management partners in the study areas to build spatial metrics to implement in the field that will improve forest resistance and resilience to climate change and altered fire regimes using the Resist, Accept, Direct (RAD) framework. A white paper, an online tool, and a peer-reviewed publication co-produced with managers are the expected deliverables.

The candidate will work directly with Drs. Andrés Holz (PSU; [GEC lab](#)), Robert Scheller (North Carolina State U; [DE&L lab](#)), and Buzz Nanavati (U Montana; [Paleofire lab](#)), and closely with project partners from the U.S. Forest Service, Bureau of Land Management, and Oregon Department of Forestry. This research position is funded by the USGS-NWCASC and is based at PSU in Portland, Oregon.

Minimum Qualification: M.S. in ecology, environmental sciences, geography, forestry, or related field by the time of appointment.

Preferred qualifications: a strong foundation in forest, landscape, and fire ecology, and demonstrated experience in data analysis, programming in R or Python and C++ or C#, and statistical analysis of spatial and temporal datasets. A strong desire to work with stakeholders and as part of a team and evidence of emerging scholarship, including a peer-reviewed publication. Prior experience in web-based tool development.

Application: Please send a cover letter with three references, CV, and PDFs of one or more relevant publications to Drs. Andrés Holz, Robert Scheller, and Buzz Nanavati, Emails: holz@pdx.edu , rschell@ncsu.edu, and william.nanavati@umontana.edu.

This posting is open until filed and review of applications will begin on July 30. This search may close without notice when a sufficient number of applications are received, or a hiring decision has been made. The preferred starting date is late September of 2024. Interviews will occur via Zoom. Appointment is for 20 months with a 12-month renewal opportunity.

Salary and benefits: Starting salary is \$63,480 per year. As part of this union-represented position (AAUP), PSU offers a comprehensive [benefits package](#). **PSU** is an integral part of the downtown of beautiful Portland. Portland offers stellar dining, coffee culture, breweries, wine tasting, and live music performances. Additionally, the city is surrounded by breathtaking natural wonders, including diverse landscapes, picturesque mountain views, tranquil lakes, wetlands, hiking and biking

paths, opportunities for wildlife observation, and a multitude of captivating experiences waiting to be discovered.

PSU is committed to hiring and retaining a diverse workforce. We are an Equal Opportunity Employer, making decisions without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, veteran status, disability, or any other protected class.