

From: David Inouye
Subject: Postdoc: fire and cutting effects on vegetation and fuels

POST DOCTORAL POSITION: RESILIENCE TO FOREST RESTORATION TREATMENTS

A 1.5 years post-doctoral position is available starting June 2017 within the College of Forestry and Conservation and Division of Biological Sciences at the University of Montana to work on a project to examine 25-year fire and cutting effects on vegetation and fuels at the Lick Creek Demonstration-Research Forest in western Montana. The successful candidate will work with project co-PI's (Anna Sala and Christopher Keyes, UM; Sharon Hood (USFS-RMRS) to: 1) study effects of fire and cutting treatments on resilience to drought and bark beetles in ponderosa pine forests of the Northern Rocky Mountains; 2) coordinate overall project activities and deliverables; and 3) participate in outreach activities.

REQUIRED QUALIFICATIONS: demonstrated strong commitment to basic research, background in dendrochronology, forest fire ecology, tree physiology and isotope research, demonstrated ability to publish peer-reviewed papers, effective written and oral communication skills, willingness to work in a team environment, and a Ph.D. received within the last five years in a relevant discipline.

DESIRED QUALIFICATIONS: Desired skills include: 1) advanced skills in applied statistics; 2) experience with tree growth-climate data analyses; and 4) ability to interact with and communicate to broader audiences. We encourage applicants who can work across disciplines and independently enhance project outcomes by adding innovative approaches.

STIPEND/SALARY: Salary will be commensurate with skills and will include full benefits.

TO APPLY: In a single pdf document, please send a CV, a short statement of your research and career goals and how you envision to contribute to the overall project goals, and the names and contact information of three references to Anna Sala (sala@mso.umt.edu). We will start reviewing applications by March 10.

UNIVERSITY AND COMMUNITY: The University of Montana's College of Forestry and Conservation and Division of Biological Sciences are on the forefront of ecological research and natural resource management. Our faculty and students conduct basic and applied research in a wide range of biological and natural resource disciplines, and have ready access to Montana's extensive wild and working lands for natural laboratories and recreational opportunities. The City of Missoula (population approx. 70,000) is regularly featured as one of the most livable cities in the United States.

ADDITIONAL INFORMATION. The Lick Creek Demonstration/Research Forest in the Bitterroot National Forest, MT, was established in 1991 to test restoration alternatives in restoring the site's ponderosa pine vegetation community and reduce fuel loads down to historically-appropriate levels. Seven prescribed burning and cutting treatment variants to test Silvicultural treatments were implemented in 1992, followed by prescribed burning in 1993 and 1994, under a fully replicated experimental design involving randomization of treated units and a permanent, systematic plot sampling network. The site offers a truly unique opportunity to assess 25-year-effects of burning and cutting restoration treatments. The successful applicant will have available extensive work on vegetation and fuel dynamics and fire hazard, as well as sampled cores for immediate data analysis and isotope

work on drought effects.