A postdoctoral research associate position is available in the laboratory of Dr. Monica G. Turner as part of a study to define, measure, and manage for forest resilience in the northern US Rocky Mountains during the 21st century. Ecological resilience theory is well developed, but how to apply these concepts in actual landscapes is not clear. Fire and forest managers would benefit from knowing how to measure resilience; where, when and why resilience may be lost; and what management options can promote resilience. With funding from the Joint Fire Science Program, we will quantify ecological and social dimensions of resilience for northern Rocky Mountain forests and develop innovative methods for operationalizing forest and landscape resilience concepts. Guided by participatory stakeholder workshops, we will combine state-of-the-art projections of future climate and fire regimes with extensive data on post-fire forest dynamics to model alternative future scenarios and evaluate resilience at stand, landscape, and regional scales. We will also develop innovative statistical approaches to extrapolate results and assess regional resilience, and re-convene with stakeholders. The successful candidate will simulate future scenarios using iLand, a next-generation process-based forest landscape model, and FVS for selected landscapes; conduct statistical and GIS-based analyses; communicate research orally and through peer-reviewed journal articles; and attend both stakeholder workshops. The postdoctoral associate will also assist with project management and logistics and collaborate with project personnel, including Drs. Adena Rissman, Leroy Westerling, Dan Donato, and Rupert Seidl. For more information about the Turner Lab, visit http://landscape.zoology.wisc.edu; for information about ecology at UW-Madison, see http://ecology.wisc.edu/. Funding is available for 2.75 years.

Qualifications. Applications are encouraged from outstanding candidates who work well in a collaborative setting. Applicants should have experience in fire ecology and climate change effects in western conifer forests; forest landscape analysis and/or modeling; and enjoy interdisciplinary research. Applicants must have completed a PhD in ecology or related field prior to appointment. Successful candidates will have an excellent publication record, proven communication and quantitative skills, ability to work well with varied stakeholders, and the capacity to work with models and data across a range of scales. Candidates should ideally be available to start between 1 September 2016 and 15 January 2017.

To Apply. Candidates should email (in a single PDF file) a cover letter, CV, one-page statement of research interests, and the names and contact information of three references to Carol Cooley (cacooley@wisc.edu). Please indicate “Forest Resilience Postdoc” in the subject line. Review of applications will begin 15 June 2016, and position will remain open until filled.

UW-Madison is an equal opportunity employer, and specifically invites and encourages applications from women, minorities, and people with disabilities. Applicants must be authorized to work in the United States at the time of employment. The Immigration Reform and Control Act of 1986 requires the University to verify the identity and work authorization of the successful applicant. Any offer of employment is contingent upon verification.

9 May 2016