School of Forestry

Forest Ecohydrology Modeling Postdoc
Northern Arizona University

Position Highlights:

We seek a postdoctoral researcher to work as part of a collaborative, interdisciplinary team to model ecosystem feedbacks between microclimate, disturbance, and forest health across Northern Arizona. The postdoctoral researcher will integrate a vast network of hydro-ecological data across multiple sites to ask key questions about forest ecosystem and hydrologic responses to changes in snow, soil moisture and fuel moisture across different disturbance and management scenarios. The research is expected to culminate in conference presentations, peer reviewed publications, and factsheets for managers and policymakers. The researcher will be supervised by Dr. Salli Dymond (NAU), but will work collaboratively with Dr. Jackson Leonard (USFS), Dr. Joel Biederman (ARS), and Dr. Teki Sankey (NAU).

This is a full-time position based in Flagstaff, Arizona, with an annual salary of $65,000-$70,000, plus benefits. This is a three-year funded position, although re-appointment is contingent upon performance.

Duties & Responsibilities:

- Acquire, summarize, and analyze environmental sensor and ecohydrologic datasets.
- Apply ecohydrological/ecophysiological models to address questions on ecosystem responses to climate and disturbance in northern Arizona forests.
- Work in a collaborative and interdisciplinary setting.
- Publish results in fact sheets and peer-reviewed papers.
- Present findings at conferences.

Minimum Qualifications:

- PhD in ecohydrology, ecophysiology, forestry, hydrology, ecology, civil-engineering, or related field that is conferred upon hire.
- Familiarity with at least one programming language and a demonstrated ability to apply quantitative models for hydrological and/or ecophysiological processes (e.g., ParFlow-TREES, RHESSys, or similar model).
- Demonstrated ability to communicate results of scientific work through peer-reviewed publications and/or conference presentations.

Preferred Qualifications:

- Experience working with GIS and/or remote sensing data.
- Experience working in remote field settings, working with environmental sensors, and/or database management.
- Demonstrated experience working in a collaborative setting.

Applications close on **October 21, 2024**. To apply, visit NAU Careers, click on “Career Openings”, and search Job ID 608072. The position start date is negotiable.