

## **Ph.D. Research Assistantship in Forest Hydrology**

**Application Due Date:** December 12, 2022

### **Position Description**

[Dr. Salli Dymond](#) is seeking a graduate research assistant (GRA) to join [her research group](#) at Northern Arizona University (NAU) beginning summer 2023. The GRA will work on a collaborative research project with [Dr. Jackson Leonard](#) from the USFS Rocky Mountain Research Station based at the [Sierra Ancha Experimental Forest](#) investigating the ecohydrological resistance and resilience of disturbed forested watersheds in the arid Southwest. Specifically, this research aims to identify the dominant sources of streamflow in arid SW watersheds to understand how watersheds store and release water across seasons and years; and to separate the combined impacts of climate, forest management, and wildfire on streamflow dynamics. Results from this study will inform land management and restoration efforts in the region, particularly in watersheds that are facing a multitude of disturbance threats.

GRA duties include the installation, collection, analysis, and synthesis of quantitative hydrological, geochemical, and ecological data for peer-reviewed publications.

The assistantship will fund the student for 20 hours/week, 12-months/year, for four years (annual renewal contingent on performance). Funding includes a competitive stipend, tuition waiver, health insurance, and travel support. Students from underrepresented groups are encouraged to apply.

This position is based in Flagstaff, AZ. Flagstaff has a population of about 70,000 and is rich in cultural diversity. Located at the base of the majestic San Francisco Peaks, Flagstaff is 140 miles north of Phoenix at the intersection of Interstate 17 and Interstate 40. With its elevation of 7,000 feet and four-season climate, Flagstaff is ideal for year-round outdoor activities. Nearby attractions include the Grand Canyon, Lowell Observatory, Oak Creek Canyon, Sedona, Monument Valley, Sunset Crater, Canyon de Chelly, and the San Francisco Peaks, a Traditional Cultural Property sacred to numerous Tribes.

### **Application Process**

**Interested individuals must submit a CV, one-page cover letter, and contact information for 2-3 professional references to Dr. Dymond via email**

**([salli.dymond@nau.edu](mailto:salli.dymond@nau.edu)) by December 12, 2022.** The selected candidate MUST then apply and be accepted to the [NAU School of Forestry](#) graduate program for Fall 2023. Please address specific application questions to [NAU graduate admissions](#).

### **Required Qualifications for the Assistantship**

- A B.S. degree in forestry, hydrology, watershed science, earth science, geology, natural resource management, ecology, or closely related field of study.
- Experience working in field setting.
- Ability to work in remote environments, hike up to 5 miles per day, and carry approximately 25 lbs.
- Strong writing skills and desire to author academic publications.
- Experience or desire to work with multi-disciplinary ecohydrological and biogeochemical datasets.
- Experience or desire to build statistical models in R, Python, or a similar statistical software.

### **Preferred Qualifications for the Assistantship** (please state in the cover letter which of these, if any, apply)

- A M.S. degree in forestry, hydrology, watershed science, earth science, geology, natural resource management, ecology, or closely related field of study.
- Previous research experience, including academic publication experience.
- Previous experience with statistical analysis, including coding in R, Python, or a similar statistical software.
- Desire to communicate one's science through public-facing seminars or similar avenues.