

## Postdoctoral Scholar Position: Modeling changing fire regimes and their effects on biogeochemical and ecohydrological processes in western North America



The [Fire & Dryland Ecosystems Lab](#) led by Dr. Erin Hanan in the [Department of Natural Resources and Environmental Sciences](#) at the [University of Nevada, Reno](#) invites applications for three new Postdoctoral Scholar position starting in fall 2023. The postdocs will work on one of three interdisciplinary projects investigating how wildfire regimes are changing in western North American watersheds, and how shifting fire regimes will affect biogeochemical and ecohydrological processes.

These projects are funded through NSF, NASA, the US Forest service, and CAL FIRE and include exciting collaborations with researchers at UC Santa Barbara, Washington State University, Oregon State University, the University of Idaho, and the US Forest Service. The postdoc will be expanding and improving the ecohydrologic–biogeochemical model RHESSys to better simulate fire regimes and their effects wildfire on water quantity and quality.

The postdoc will have access to substantial existing data from past and ongoing studies, a network of unique study sites, and a dynamic team of investigators. Successful applicants will be expected to work independently as well as collaboratively as a member of the research group, participate in model development, and publish their research results. The position will be based in Reno. We seek applicants with strong skills in ecohydrology, programming, and process-based modeling.

### Requirements

- PhD in hydrology, engineering, ecology, environmental science, or a closely related discipline
- Experience working with process-based models
- Excellent written, verbal, and computation skills
- Extensive experience with R programming

### Preferred skills

- Experience with GitHub
- Unix/Linux development experience using C and shell scripts

The postdoc will also have an opportunity to attend weekly colloquiums organized by the interdepartmental programs in Hydrologic Sciences: <https://www.unr.edu/hydrologic-sciences>, Ecology,

Evolution, & Conservation Biology: <https://www.unr.edu/eecb>, and the Global Water Center: <https://www.unr.edu/water-center>. UNR is a member of the National Postdoctoral Association (NPA). All postdocs have access to resources available through NPA's website. In addition, the postdoc will have access to resources from the Office of Postdoctoral Affairs, including career guidance and professional development activities, which are available through campus-wide events and through individual consultations. The Office of Postdoctoral Affairs also maintains a website providing additional support.

UNR is an R1 university located in Reno, NV, which sits at the ecotone between the Sierra Nevada Mountain Range and the Great Basin. Notable Sierra attractions include Lake Tahoe and Yosemite Valley. The area is rated among the most livable cities in the US.



To apply, prospective postdocs should send a cover letter and CV to Dr. Hanan ([ehanan@unr.edu](mailto:ehanan@unr.edu)). Cover letters should explicitly state your qualifications for each position including papers accepted or in review. Applicants must have clearly demonstrated the ability to publish data in peer-reviewed journals. Postdoctoral researcher positions require the completion of a PhD by the start date for the position. The salary rate is \$60,000 per year. Review of applications will begin immediately and continue until all positions are filled.

*We encourage applicants from any race, color, religion, ethnic, gender, gender identity or expression, sexual orientation, disability, age, or veteran status.*