

**Postdoctoral Research Scientist Position in  
Regional-scale Hydrology and Hydroclimatology  
University of Colorado, Boulder  
Cooperative Institute for Research in Environmental Sciences (CIRES)**

We seek a Postdoctoral Research Scientist to investigate the hydrologic impacts of recent changes in land-cover and climate over key regions of the United States. Specifically, the goals of this research are to (1) identify the drivers of increased flood severity within the Missouri River Basin over the last 4 decades using a hydrologic modeling framework, and (2) assess the impacts of land-cover change on evapotranspiration in the Great Plains region to provide insights on the direction of future changes under projected climate scenarios. The participant is encouraged to develop new and novel approaches to these problems and extend their work to other geographical domains. The participant will become familiar with the latest approaches for quantifying disturbance impacts with geospatial tools including land surface modeling and statistical analyses. This research position will provide an exceptional professional development opportunity in a highly collaborative, multidisciplinary environment, with the potential to participate in education and outreach activities.

Research will be done within the University of Colorado's prestigious Cooperative Institute for Research in Environmental Sciences (<http://cires.colorado.edu/>), and the participant will be encouraged to collaborate with experts from NOAA's Earth Systems Research Laboratory (<http://www.esrl.noaa.gov/psd/>), the Western Water Assessment (<http://wwa.colorado.edu/>), the department of Civil, Environmental, and Architectural Engineering (<http://www.colorado.edu/ceae/>), and with other scientists and stakeholders.

**Job requirements:** We seek a candidate with strong quantitative and analytical skills. The successful candidate will hold a Ph.D. in engineering, hydrology, or related scientific field with a strong emphasis on data analysis, statistical and numerical modeling of hydrologic and climate systems. Experience with large-scale land surface or hydrologic modeling is strongly desired. Interest in interacting with water managers and regional stakeholders is also desired. Excellent presentation skills, technical writing and are required.

**Preferred Qualifications:** At least one degree in a related science or engineering discipline is strongly preferred. Computer programming in R, Matlab, and python is desirable. The position is full-time with a full benefit package. The initial appointment will be for one year with the possibility of annual renewal based on performance and the availability of funds.

To apply, please contact Professor Ben Livneh ([ben.livneh@colorado.edu](mailto:ben.livneh@colorado.edu))