



Doctoral Research Assistantships Utah State University

Department of Civil and Environmental Engineering
and Utah Water Research Laboratory



3–5 Positions Open for Fall 2023

Positions are in support of the **Cooperative Institute for Research to Operations in Hydrology (CIROH)** and will focus on developing next-generation data and modeling infrastructure to support national scale hydrologic modeling conducted by the National Oceanic and Atmospheric Administration's (NOAA) Office of Water Prediction (OWP)

Specific study topics:

Advancing next-generation Hydrologic Information Systems, including efficient systems for interfacing with environmental sensors and data logging systems, implementation of standards-based web service interfaces and data encodings for sharing data, and advancing collaboration, data sharing and modeling linked to HydroShare

Contact: Dr. Jeff Horsburgh
jeff.horsburgh@usu.edu

Advancing geospatial representation of 3D channel and hydraulic properties in large-scale hydrologic models

Contact: Dr. Belize Lane
belize.lane@usu.edu

Advancing water management-hydrologic model coupling to improve hydrologic forecasting in managed watersheds

Contact: Dr. Pin Shuai
pin.shuai@usu.edu

Advancing methods, algorithms, and techniques for extraction of hydrologic information from camera-based monitoring systems

Contact: Dr. Sierra Young
sierra.young@usu.edu

Background:

Engineering, Hydrology, Water Resources, Computer Science, or related field required

Application:

Interested students should email a current curriculum vitae and unofficial transcripts **as soon as possible** to the contact listed for the topic in which you are most interested. Please reference this opportunity in your email. You may apply for more than one opportunity.

Applicants must apply for admission through the USU graduate school: <https://www.usu.edu/graduateschool/>

Additional information and application instructions:

<https://uwrl.usu.edu/opportunities>