



The
UNIVERSITY
of VERMONT



Postdoctoral Research Associate in Winter Watershed Nutrient Fluxes

We are recruiting a postdoctoral research associate to research how warming winters are changing watershed functioning and nutrient export. This work continues a 7-year project on watershed responses to climate change and extreme weather events across land uses.

This research position will focus on identifying ***how changing winters, with increasingly common snowmelt, rain, and rain-on-snow events, impact the timing and magnitude of watershed nutrient export and alter critical source areas and flowpaths for water, nitrogen, and phosphorous.***

Qualifications

We seek a field-oriented postdoctoral researcher with expertise in nutrient biogeochemistry and catchment hydrology that is interested in studying how warm winter events cascade through watershed soils and into streams. Research will leverage three heavily instrumented watersheds in Vermont (forested, agricultural, and urban) and focus on the pathways and processes that drive nutrient export, with emphasis on how export pathways and processes vary between winter events (thaws and rain on snow) and growing season events.

The candidate should have expertise and/or interests related to the processing and transport of nutrients or pollutants across riparian soil corridor through river networks. Elements of particular interest include phosphorus, nitrogen, and iron in both particulate and dissolved forms.

Experience working with in-situ sensors as well as advanced statistical analyses for interpreting large environmental datasets are desirable. The successful candidate will be responsible for mentoring undergraduate and graduate students associated with this large cross disciplinary project.

With a somewhat flexible fall start date, this will be a 2-year position. Salary range: \$56,500 to \$65,000 depending on experience.

Please contact Andrew Schroth (Andrew.Schroth@uvm.edu) or Carol Adair (Carol.Adair@uvm.edu) for more information.

To apply: please send CV, names and contact information for three references, and a cover letter outlining research interests, expertise, and availability to Carol.Adair@uvm.edu. Applications will be considered until the position is filled.