

Environmental Science

Summer internship

Come work with the Aspen Global Change Institute and Scripps Institution of Oceanography Center for Western Weather and Water Extremes on understanding the variability of soil moisture.



Data Analysis: We'll pay for your travel to La Jolla, CA for 8 weeks of data analysis, GIS, seminars, and statistics.



Field Work: We'll fly you back to Colorado for a week-long field campaign in July.



Learning, Skills, and Networking: Learn data analysis skills, connect with other researchers, and contribute to a larger research project.

WHO YOU ARE:

We're looking for a passionate, self-motivated CMC student who has GIS skills or is keen to learn GIS this summer.

APPLY NOW!



Project Activities for the Roaring Fork Project

Aspen Global Change Institute (AGCI) and Yampa Valley Sustainability Council (YVSC)/CW3E maintain and operate in situ field observation networks of soil moisture in mountainous terrain in the Colorado River Headwaters. Mountainous terrain can have complex and heterogeneous soil moisture patterns over small scales; however, these monitoring networks only operate with point-based observations that may or may not be representative of larger regions. This project aims to quantify the representativeness of these point based measurements of the field-scale soil moisture patterns.

This project will consist of a week-long field work campaign (in Colorado) at AGCI's soil moisture monitoring network locations working with a team to collect large volumes of soil moisture data near ongoing monitoring sites. The field campaign will be followed by an opportunity to analyze the collected data with a geostatistics project (at Scripps) utilizing statistics to quantitatively describe how soil moisture varies across the spatial regions near the monitoring stations.

This is a partnered internship with a similar opportunity in the Yampa Valley. Both applications are on the same link -- feel free to apply to one or both!

Desired Skills

- Microsoft Excel, Word
- Strong interest in ecology, hydrology, and climate change
- Experience with, or a desire to learn:
 - GIS
 - Statistics
 - Data analysis
 - Data entry
- Excitement for a week of camping and field work
- Completed GIS and Environmental Science courses (preferred)

Questions may be directed to: Asa DeHaan (adehaane@agci.org) or Tanya Petach (tpetache@agci.org)

Further information at:

<https://cw3e.ucsd.edu/cw3e-internship-program/>