

The Alexander Group in the UW Department of Atmospheric Sciences (<http://www.atmos.washington.edu/blog/beckya/>) has an opening for a full time undergraduate researcher during the summer of 2014. The position will be up to 40 hours per week June 16 – September 15. However, if you are enrolled during the summer, the hours are limited to 19.5 hours per week June 16 – August 22. The undergraduate will work under the guidance of Professor Alexander and a senior graduate student.

The goals of the project involve investigating the role that snow plays in the formation of ground-level ozone in Utah during winter. The student will assist in analysis of snow samples previously collected in January and February 2014 in Utah's Uintah Basin. More information about the field campaign can be found here: <http://www.esrl.noaa.gov/csd/groups/csd7/measurements/2014ubwos/http://www.esrl.noaa.gov/csd/groups/csd7/measurements/2014ubwos/>. The student will perform measurements of the isotopic composition of snow nitrate via mass spectrometry and measurements of light absorption using a spectrophotometer. The isotope measurements will be performed in the UW's IsoLab (<http://depts.washington.edu/isolab/>), which specializes in the analysis of light stable isotopes. The student will also have the opportunity to analyze the measurements using computer model calculations, and gain experience working with Python code. In addition, the undergraduate student will be expected to work with another undergraduate researcher in the development of a hands-on outreach activity to be used in venues such as Paws-on Science at the Pacific Science Center. There may be an opportunity for the position to continue on a part-time basis during the 2014-2015 academic year.

The ideal student will be majoring in a field in the physical sciences (e.g. physics, chemistry, earth and atmospheric sciences) or engineering (e.g. chemical, environmental). If interested, please send a resume and cover letter to Becky Alexander at beckya@uw.edu. Please include contact information for three references.