

**Subject:** Postdoc in dryland ecosystem science at ASU

The School of Earth and Space Exploration (SESE) at Arizona State University invites applications for a postdoctoral scholar in dryland ecosystem science.

Applications are invited for a postdoctoral research position focused on understanding controls over carbon cycling in human-impacted dryland ecosystems. The postdoc will collaborate on one or more projects addressing carbon cycle responses to changes in vegetation, land management, and climate. Potential projects include characterization of abiotic controls over litter decomposition and the fate of decomposition products, a large-scale manipulative study evaluating the consequences of brush management on multiple ecosystem services, a multi-site study quantifying the role of organic matter inputs on soil carbon processes, and use of co-located rainfall and grazing gradients to quantify above- and belowground carbon cycle responses to human land use under different climate regimes. The postdoc will work with Dr. Heather Throop and a multi-disciplinary group of collaborators in the School of Earth and Space Exploration and the School of Life Sciences at Arizona State University. Opportunities will also exist to work with collaborators at other universities and federal agencies. Potential field sites include the Santa Rita Experimental Range (Arizona), the Jornada Basin LTER (New Mexico), and precipitation gradients Namibia.

The postdoc will be expected to collaborate on existing projects as well as take a lead on developing independent research projects relating to existing work. The successful candidate will be expected to take a lead on manuscript development and will have the opportunity to participate in future grant proposal submissions. The postdoc will have the opportunity to participate in formal career development programs at ASU (e.g., the SESE Postdoctoral Development Program; <http://sese.asu.edu/content/sese-postdoctoral-development-program>).

More information about SESE and SoLS can be found here:

<http://sese.asu.edu/>

<http://sols.asu.edu/>

The initial appointment is for one year with subsequent annual renewal for up to two additional years contingent upon satisfactory performance, the needs of the university, and availability of resources. The desired start date is 15 January, 2016. This position comes with a competitive salary and health insurance. Minimum qualifications include a Ph.D. in ecosystem science, ecology, soil science, biology, biogeochemistry or a closely related field by the start date. Desired qualifications include demonstrated proficiency with laboratory analyses (elemental analysis, stable isotope analysis, gas flux measurements), field measurements, ecosystem modeling, a strong publication record, and strong quantitative skills. A valid drivers license is required. Periodic field campaigns may require several weeks of travel under challenging working and living conditions, including extreme temperatures.

To apply, please submit a single PDF document to [heather.throop@asu.edu](mailto:heather.throop@asu.edu) that includes the following:

- \* A cover letter
- \* Contact information for three references
- \* A curriculum vitae with a publication list
- \* A statement of past research accomplishments, research interests, and career goals (three pages or less)

Complete applications will be reviewed beginning 23 October, 2015. Complete applications received after this date are still welcome and will be reviewed every two weeks until the search is closed.

Postdoctoral benefits can be found at:

<http://www.asu.edu/hr/benefits/forms/benefitpacketpostdocs.pdf>

Arizona State University is a VEVRAA Federal Contractor and an Equal Opportunity/Affirmative Action Employer. All qualified applicants will be considered without regard to race, color, sex, religion, national origin, disability, protected veteran status, or any other basis protected by law.

<https://www.asu.edu/aad/manuals/acd/acd401.html> <https://www.asu.edu/titleIX/>

ASU conducts pre-employment screening for all positions which includes a criminal background check, verification of work history, academic credentials, licenses, and certification.

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