

Job Posting

Position Information

Position Title:	Research Specialist, Senior
Job Number:	31840
Department:	2412-School of Natural Res-Res.
College/Division:	College of Agriculture and Life Sciences
Posted Rate of Pay:	\$36,440 - 40,000 annually
Position Type:	Classified Staff
Job Open Date:	11-03-2004
Job Close Date:	Open Until Filled
Review Begins on:	11-10-2004 (continues until position filled)
Benefits Eligible:	Yes
Full Time / Part Time:	Full Time
Days and Schedule to be Worked:	Normal workweek with occasional irregular hours and trips
Number of Hours Worked Per Week:	40
Limited to Current UA Employees:	No
Additional Documents Required:	Letter of Interest Resume

Additional Materials Required

Position Summary: The successful candidate will be supervised by Dr. David D. Breshears in the School of Natural Resources and affiliated with the Institute for the Study of Planet Earth. The successful candidate will interact with collaborators in ecosystems ecology, hydrology, physiological ecology, soil science, landscape ecology, remote sensing and ecosystem modeling. Research emphasizes interrelationships between ecology and hydrology in dryland ecosystems, interactions between woody and herbaceous plants, carbon and water fluxes, wind vs. water erosion and new technology for measuring soil carbon (Laser-Induced Breakdown Spectroscopy).

Studies in progress or planned for the near future will include use of carbon and water flux towers.

This position will require regular multi-day field trips to research sites off campus and out of state for data and sample collection and will require the ability to work long

hours outdoors under rigorous climatic conditions at remote sites.

Duties and Responsibilities:

- Supervision and coordination of activities of undergraduate student workers, technicians and graduate students in the processing of plant, soil, and water samples for physical and chemical analysis. *
- Management and statistical analysis of extensive databases and the preparation of manuscripts.
- Candidate is expected to actively participate in the writing of manuscripts and grant proposals.

Arizona Board of Regents Minimum Qualifications:

Master's degree in a field appropriate to the area of assignment AND three years of related research experience; OR, Bachelor's degree in a field appropriate to the area of assignment and four years of related research experience; OR, any equivalent combination of experience, training and/or education.

Additional Minimum Qualifications:

- Possession of a valid driver's license and access to reliable transportation upon employment.

Preferred Qualifications:

- Experience with measuring soil water various methods, including time-domain reflectometry, neutron probe, capacitance/frequency domain reflectometry, and/or dual needle heat pulse.
- Experience with eddy flux measurements.
- Experience with Campbell data loggers and associated instrumentation.
- Experience with LI-COR gas exchange systems, sensors and data loggers.
- Working knowledge of software applications in statistics, graphics, database and image processing.
- Familiarity with soil core extraction techniques and soil/root processing protocols.
- Experience with Scholander pressure chambers.
- Experience with mass spectrometry.

- Experience with fabrication of laboratory and field equipment.
- Demonstrated effective communication, organizational and problem solving skills.
- Ability to identify grasses, shrubs and forbs.
- Familiarity with terrestrial ecosystems in New Mexico and Arizona.
- Experience with field data collection techniques in plant ecology and soil science.

Supplemental Requirements:

None

Job Category:

Research

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