



Announcement 2015

Posting # 1500156F

POSITION AVAILABLE:

Research Assistant Professor
12 month (Non-Tenure Track)

SALARY:

Commensurate with education and experience

POSITION CONDITIONS:

Valid driver's license.
Position will include field work

INQUIRIES TO:

Dawn Browning
Jornada Experimental Range
NMSU, Box 30003, MSC 3JER,
Las Cruces, NM 88003
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Email: dbrownin '@' nmsu.edu

All materials (letter of interest, resume or vita, and names, phone numbers, and emails for three references) must be submitted electronically (see below) by **1/15/16**.

This position with New Mexico State University will support on-going ecological studies of plant dynamics and life cycle events (i.e., plant phenology) in water-limited ecosystems that range in scope and scale to characterize plant- and landscape-level patterns and the processes that govern them. The incumbent will also provide specific support for research efforts at the Jornada Experimental Range coordinated with the Long Term Agricultural Research (LTAR) and National Ecological Observation Network (NEON) programs.

SPECIAL CONDITIONS:

Position is contingent upon funding.

- Offer of employment contingent upon verification of individual's eligibility for employment in the United States.
- Position will require field work under harsh environmental conditions.

QUALIFICATIONS:

- Master's degree (in hand by hire date) in biology, geography, mathematics, ecology or a related field,
- Experience with and basic understanding of common techniques of ecological data collection (field and remote sensing), management, statistical analysis, and reporting,
- Skills in plant botany to support field phenology data collection,
- Knowledge of field sensor equipment and field data loggers; Ability to collect, process and manage biophysical data of diverse natures,
- Geospatial skills and proficiency in ArcGIS Geographic Information System (GIS); Understanding of principles of remote sensing and image processing,
- Experience in using or developing quantitative tools, statistical models, GIS, and remote sensing, and
- Good oral and written communication skills with demonstrated experience in communicating with scientific and public audiences through a variety of media formats.

EXAMPLES OF DUTIES:

- Acquire and manage data to support of a multi-scale study of plant phenology and the role of climate in the southwestern U.S. The study encapsulates plant responses to environmental drivers at the level of individual plants to landscape level greenness responses derived from satellite imagery. Field data collection of plant phenology requires close attention to detail.
- Apply knowledge of soils, vegetation, climate, meteorological, and other databases to develop derived data products in support of model development for the Southwest region.
- Collect, maintain, organize, and manipulate data from diverse sources while applying knowledge of various field data collection procedures related to vegetation and soils.

- Explore data and perform image processing to derive ecological metrics using remote sensing data from a range of sensors (i.e., UAV airborne and satellite).
- Interpret field and image data and complete written summaries of results as a precursor to peer-reviewed publications. Generate graphics and figures to summarize data to support publication efforts.
- Access, analyze, and make web accessible the long-term data from many sites relevant to ecosystem dynamics in the Southwest region.
- Collaborate with team members and collaborators at the University of Arizona and National Phenology Network and other institutions and federal agencies.

BENEFITS:

Unemployment and Workers' Compensation, New Mexico Educational Retirement, Annual and Sick Leave, Group Medical and Hospital Insurance and Life Insurance. Opportunity for educational advancement.

TO APPLY:

Visit <https://jobs.nmsu.edu/postings/23972> and submit electronic materials before the closing date on **1/15/16**. Required documents must be attached to the application. For questions about the position, please contact Dawn Browning at dbrownin@nmsu.edu or 575-646-8032.

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