



University of New Mexico

Response of piñon-juniper woodland to rainfall manipulation

Two positions: a *postdoctoral scientist* and a *research scientist* (M.S. preferred) at the University of New Mexico (UNM). These positions are associated with ecosystem-scale rainfall manipulations at Sevilleta LTER in New Mexico.

The Project: A DOE funded collaboration with Los Alamos National Laboratory (LANL) addressing the hydraulic mechanisms of survival and mortality of piñon and juniper trees during drought. Field work focuses on quantifying responses to ecosystem-scale increases and decreases in precipitation. The project includes opportunities for measurements and modeling of plant water relations, carbon balance and stable isotopes. UNM and LANL have a strong group in physiological ecology, ecosystem science and eco-hydrology facilitating interactions with scientists in related areas.

Postdoctoral Fellowship: Required qualifications include a Ph.D. at the time of appointment, research experience in physiological or ecosystem ecology or related fields, demonstrated ability to publish peer-reviewed papers, effective written and oral communication skills, and willingness to work in a team environment. Desired skills include experience with dataloggers, gas exchange instrumentation, sapflow, water relations and hydraulic measurements, or process modeling.

Research Scientist: Principal duties include the maintenance of rainout and water addition treatments on 40 x 40 m plots, data collection and analysis, and supervision of student employees. A minimum one-year commitment is expected. Desirable skills include 1) demonstrated proficiency and creativity with repair and maintenance of experimental infrastructure, particularly rainfall manipulation experiments. 2) proficiency with gas exchange systems, sap flow, water relations techniques, datalogger programming, and solar power systems, 3) experience analyzing large data sets, 4) experience supervising students and 5) ability to work long hours in the field when necessary. Applications via <http://jobs.unm.edu/jobopenings.cfm> when posted.

For more information, see <http://www.unm.edu/~pockman/opp.html> or contact **Will Pockman** (pockman@unm.edu) and/or **Nate McDowell** (mcdowell@lanl.gov).