

# **Postdoctoral Research Position**

## **Job Description**

New Mexico State University (NMSU) is accepting applications for a qualified and experienced Postdoctoral Researcher with a background in modeling, preferably experience with system dynamics.

## **Project Description**

NSF EPSCoR Project

CNH: Acequia Water Systems Linking Culture and Nature: Integrated Analysis of Community Resilience to Climate and Land-Use Changes. NSF Award #1010516

Energize NM EPSCoR modeling module

## **Project Objectives**

A system dynamics decision support system, the Rio Grande Water and Society Simulation Model (RGWSSIM) that will allow simulations of changes in human and natural systems linked by acequia communities. RGWSSIM will operate on a computer and be accessible to community users. Scenarios will consider climate and economic changes as well as stakeholder-defined impacts such as climate and land use on river/riparian function, tradeoffs among competing agricultural practices, and associated economic/environmental consequences of alternative resource management strategies.

## **Qualifications**

- Ph.D. in an appropriate field of science or engineering from an accredited institution
- Ability to work independently and as part of a research team; good interpersonal skills
- Ability to conceptualize and develop research proposals
- Ability to effectively analyze and report research findings to sponsors, at conferences, and in the scientific literature (clear written and spoken English)
- Research focus that is complementary with existing NSF CNH & EPSCoR projects
- Ability to conduct field work in northern New Mexico
- Must currently have or able to obtain NMSU driving permit

## **Salary and Benefits**

This is a full-time position with competitive salary and commensurate with qualifications.

## **Contact**

Interested applicants should send a CV, references, and cover letter to Dr. Alexander “Sam” Fernald via email (afernald@nmsu.edu). Applications will be reviewed until the position is filled, with a start date to be determined.

