

Postdoctoral Research Fellow (Climate Dynamics)

The George Mason University, Center for Ocean-Land-Atmosphere Studies (COLA) in the College of Science seeks a Postdoctoral Research Fellow to work on the National Science Foundation/U.S. Department of Agriculture project entitled, "Land Use Change and Land-Atmosphere Feedback Processes as Regulators of Regional Climate Change."

The project will explore how regional changes in land use over the coming decades could alter land-atmosphere interactions against the backdrop of a warming climate. Specifically, important climate processes over land will be examined with observational data and climate models to quantify: (1) the relationships between soil moisture, vegetation, and surface fluxes; (2) the connection between surface fluxes and the development of the atmospheric boundary layer, clouds and precipitation; and (3) the role of the biogeophysical elements in these processes.

Qualifications:

A Ph.D. in atmospheric sciences, hydrology, or a related discipline is required. The successful candidate will conduct coupled land-atmosphere modeling, assessment of climate sensitivity to variations at the land surface, and the role of component models and parameterizations in land-atmosphere feedbacks. Familiarity with coding and running global climate models and land-surface schemes is necessary. Computer programming skills and familiarity with UNIX will be necessary.

The position will involve direct collaboration with colleagues at the National Center for Atmospheric Research (NCAR).

For full consideration, applicants must apply for position number F9879z at <http://jobs.gmu.edu/>; complete and submit the online application; and upload a cover letter, CV, and a list of three professional references with contact information by 27 January 2015.