POSITION AVAILABLE

Postdoctoral Research Associate in Hydrometeorological Applications
GeoResources Institute, Mississippi State University

Date of Announcement: 21 June 2007

Function

The GeoResources Institute (GRI) at Mississippi State University (MSU) has a mature research program in the areas of atmospheric sciences, hydrology, satellite remote sensing, with applications in agriculture and water resources management. GRI is funded annually at levels greater than $15million by federal agencies, including NASA, USGS, DHS, and NOAA. GRI is a member of MSU's High Performance Computing Collaboratory, with access to a variety of supercomputing clusters, regularly ranked in the top 20 most powerful academic computing sites in the United States. GRI is seeking to fill a postdoctoral research associate position that involves analysis of remote sensing satellite data and evaluating their potential for hydrometeorological applications using numerical models and decision support systems. The position is available immediately.

Duties and Responsibilities

The successful candidates will work with a multi-disciplinary team on research projects, sponsored by the NASA Applied Sciences program, focused on the evaluation of NASA's current and planned satellite data (TRMM, GPM, AMSR-E, Aquarius) to estimate precipitation and soil moisture for earth science applications. The successful candidate will evaluate various precipitation data sets, characterize their uncertainties, develop new algorithms, incorporate other remotely sensed data into complex land surface and hydrological models, and/or verify & validate the precipitation data sets for applications using numerical models of land surface hydrology.

Qualifications

We are looking for highly motivated candidates with a PhD in Atmospheric Sciences, Hydrology, Earth/Physical Sciences, Mathematics, Engineering, and/or related fields. Experience in analyzing remotely sensed data and/or their applications using distributed hydrological and land surface models (such as Noah, CLM), is necessary; and working experience in a high performance computing environment is valuable. Expertise with programming languages such as FORTRAN, and/or C, C++ and use of data analysis software (MATLAB, GrADS) and scripting languages (Perl, Python, etc.) are also essential.

Contact Information

For more information about the positions, please contact Lori Mann Bruce in the GeoResources Institute – Email: bruce@gri.msstate.edu and Tel: (662)325-8430. **Interested applicants should apply online at:** http://www.jobs.msstate.edu **for each position of interest and submit a cover letter, a summary of research experience, and a list of three professional references (with their contact telephone numbers and email addresses) – preferably as PDF file(s).** Mississippi State University is an equal opportunity / affirmative action employer.