The UNIVERSITY of OKLAHOMA
College of Atmospheric and Geographic Sciences

POST-DOCTORAL ASSOCIATE POSITION IN CLIMATE SCIENCES

South Central Climate Science Center
College of Atmospheric and Geographic Sciences
The University of Oklahoma

In cooperation with the U.S. Geological Survey, the South Central Climate Science Center at the University of Oklahoma in Norman, Oklahoma, is seeking a recent Ph.D. graduate interested in advancing the understanding and evaluation of statistical downscaling for climate impacts research. This post-doctoral associate will examine the strengths and limitations of multiple statistical downscaling techniques by quantitatively assessing the extent to which downscaled datasets add value to output from state-of-the-art global climate models. This researcher will be an employee of the University of Oklahoma; will be located at the Geophysical Fluid Dynamics Laboratory in Princeton, New Jersey; and will work closely with principal investigators at the Geophysical Fluid Dynamics Laboratory of the National Oceanic and Atmospheric Administration (NOAA). The maximum term of this appointment is 30 months.

Applicants must have a Ph.D. in atmospheric sciences, applied statistics, or a related field. Ideal candidates will have the many of the following attributes:

- previous experience in working with and analyzing global climate model outputs;
- multivariate statistical climate data analysis skills;
- a strong understanding of and experience with statistical climate data downscaling techniques;
- advanced programming skills;
- excellent verbal and written communication skills;
- knowledge of USA/North American continental climates, including regional climate anomalies; and
- a willingness and temperament to facilitate the communications bridge between climate scientists/modelers, climate impacts researchers, and users of downscaled climate products from local, state, and federal agencies, industry, and non-profit organizations.

The salary will be competitive and commensurate with experience. It is hoped that the candidate could start no later than late summer of 2012, but other start dates can be considered.

The successful candidate will perform quantitative assessments of the skill of a range of statistical downscaling methods and participate in the analysis of the global climate model (GCM) simulations. The goal will be to develop one or more generalizable methods of evaluation to serve the climate assessment, impacts, and services communities, ultimately leading to better regional climate projections for resource managers. The successful candidate will identify high-priority variables and derivative products to be downscaled, post-process GCM datasets to generate derivative products, conduct downscaling with a variety of techniques, and evaluate the results across different regions, including the south-central United States. This process will require engagement of climate scientists and climate impacts specialists. The successful candidate will produce peer-reviewed publications, present results at scientific conferences, develop and document software code, and write clear and succinct briefing documents for climate services entities.

The South Central Climate Science Center is one of eight regional centers funded by the U.S. Department of the Interior that provides the scientific talent for understanding how climate change and other landscape stressors will change the face of the United States and how the Department of the Interior, as the nation's chief steward of natural and cultural resources, can prepare and respond. The University of Oklahoma leads a consortium that includes Texas Tech, Oklahoma State, and Louisiana State universities, the Chickasaw Nation, the Choctaw Nation of Oklahoma, and NOAA's Geophysical Fluid Dynamics Laboratory. The consortium is partnered with the U.S. Geological Survey of the Department of the Interior to operate the South Central Climate Science Center.

Applicants are asked to submit vitae, a statement of research experience and interests, and names and contact information of at least 3 academic references to Dr. Berrien Moore, College of Atmospheric and Geographic Sciences, 120 David L. Boren Blvd., Norman, OK, 73072. For further information about the position, please contact Dr. Berrien Moore at berrien@ou.edu.

The University of Oklahoma is an Affirmative Action, Equal Opportunity Employer.
Women and minorities are encouraged to apply.