POSTDOCTORAL SCIENTIST

The Department of Atmospheric and Environmental Sciences (DAES), State University of New York at Albany (UAlbany), is looking for a Postdoctoral scientist. This position is a new, full-time, two-year term position with no extension. Initial consideration will be given to applications received prior to 5:00 p.m. (EDT) on Sunday, July 15, 2018. Thereafter, applications will be reviewed on an as-needed basis. Appointments may begin as early as September 2018. To apply, please email your resume and a short statement on why you are interested in this job to Dr. June Wang (jwang20@albany.edu).

BASIC JOB FUNCTION: To conduct independent research in a project funded by NOAA Climate Program Office, document that research in publications and present results in scientific conferences. The successful candidate will analyze global radiosonde data and reanalysis products along with other datasets to develop a new approach to homogenize twice-daily radiosonde temperature profiles and use the homogenized data to address some of the un-resolved scientific issues.

DUTIES INCLUDE:
Conducting independent research to develop and deploy a new statistical approach to homogenize radiosonde twice-daily temperature data. The approach will make appropriate use of reanalysis products to remove natural variability and statistical methods to detect and remove discontinuities. The developed approach will be implemented to produce a comprehensive global data set of homogenized radiosonde daily temperature records since the 1950s for community use. The Postdoc will then use this new data set to quantify tropospheric warming trends and study extreme cold and warm climatic events during recent decades.

Work closely with two professors at DAES, one collaborator affiliated with this proposal, and other internal and external collaborators across disciplines.

Communication of research results through publication in peer-reviewed journals, meeting proceedings, and presentations at scientific meetings.

REQUIREMENTS INCLUDE:
Education and Experience
- Ph.D. degree in meteorology, atmospheric, environmental or earth sciences ***within the last three years***.
- Well-developed knowledge of interdisciplinary research methods for data analysis, preferably with some experiences on historical data homogenization or climate data analyses
- Demonstrated record of research and publication.

Knowledge, Skills and Abilities
- Skillful in programming using R, Fortran and/or other computer languages in a Linux environment.
- Ability and willingness to learn new things quickly
- Advanced knowledge of climate change and variability, climate observations and global reanalysis.
- Demonstrated knowledge of and experience in, scientific analysis of various data and reanalysis products, preferably with radiosonde data and climate data homogenization.
- Ability to exercise considerable independent judgment and creativity.
- Ability to conduct research with minimal supervision.
- Skill in oral and written communication.