Title: Cloud-Affected Infrared Radiance Data Assimilation Research Scientist - CICS/RA0501
Closing Date: open until filled
Department: ESSIC
Starting Salary: Salary is very competitive and negotiable depending on qualifications and experience.

Duties: A post-doctoral or early career scientist will be hired by the Cooperative Institute for Climate and Satellites (CICS) at the University of Maryland to support risk reduction research and development to facilitate optimal use of data from the Cross-track Infrared Sounder (CrIS) on the NPP satellite to improve operational numerical weather prediction (NWP) modeling. This scientist will serve as a subject matter expert in the Joint Center for Satellite Data Assimilation (JCSDA) to develop effective means to use of cloud-affected or cloud-cleared hyperspectral infrared radiance data for NWP. The selected candidate initially will design and set up data impact assessment experiments, and coordinate access to AIRS radiances as proxy data for CrIS. Subsequently, this scientist will conduct an initial, single season NWP impact experiment and apply standard diagnostic tests to the results. The work will then be extended to include two seasons and more extensive diagnostic testing, including tropical regions. The incumbent will work closely with staff from the National Centers for Environmental Prediction to transition the developed techniques into operational use. Additional impact assessment experiments may be performed with IASI data as available, and with CrIS data following the launch of NPP.

Qualifications: A PhD in atmospheric science, physics, mathematics, or engineering is required. Relevant experience demonstrated through peer-reviewed publication on the analysis of satellite IR sounder data, data assimilation techniques, or numerical weather prediction modeling is desired. The ability to collaborate in a team and partnership environment and excellent oral and written communication skills are crucial.

To Apply: Interested candidates should send a CV with a list of at least 3 professional references and a cover letter explaining how your qualifications meet the requirements to jobs@essic.umd.edu. The University of Maryland is an Equal Opportunity Affirmative Action employer.