The Joint Center for Earth Systems Technology (JCET) at the University of Maryland, Baltimore County (UMBC) seeks a Post-Doctoral Research Associate to assist with development of the CrIS high-spectral resolution infrared satellite sounder that will fly on NOAA's JPSS-1 satellite, and to develop techniques for determination of high-accuracy climate trends and statistics using high-spectral resolution infrared radiances data sets produced by NASA’s AIRS and EUMETSAT’s IASI infrared satellite sounders. High-spectral resolution infrared spectra of the earth’s atmosphere and surface provide a rich dataset for monitoring climate change variables and evaluating the accuracy of numerical weather prediction re-analysis products.

The successful applicant will contribute to various efforts to create climate-quality radiance data set, especially with regard to the calibration and validation of the next CrIS satellite sensor. Research will include (1) analysis of CrIS pre-flight laboratory data, and (2) statistical analysis of radiances data set time series, methods to improve the calibration and inter-calibration of these sensors, and novel techniques using probability distribution functions to measure statistical changes in these data sets.

**Qualifications:** The position requires a Ph.D. in Atmospheric Sciences, Physics, Math or related field. The candidate should have significant experience in software development and an understanding of Michaelson interferometry. Knowledge of atmospheric radiative transfer is desired, but not required. This position will be physically located on the UMBC campus. Excellent computing facilities are available for this work.

For best consideration, submit a cover letter (indicating the specific position number above), a complete curriculum vitae, home address, visa status (if applicable) and names and telephone numbers of three references by March 29, 2013 to: Danita Eichenlaub Administrative Director, JCET, University of Maryland, Baltimore County, Suite 320, 5523 Research Park Drive, Baltimore, MD 21228 at Applications_GEST_JCET@umbc.edu. (application materials for this position will be accepted until position is filled). UMBC is an Equal Employment/Affirmative Action Employer.