



CIRES/NCEI Research Associate Space Particles Post-Doctoral Scholar

The Cooperative Institute for Research in Environmental Sciences (CIRES) at the University of Colorado at Boulder has an immediate opening for a 1-year Research Associate (Post-Doc) supporting NOAA's National Centers for Environmental Information (NCEI). NCEI is a new organization within NOAA formed through the consolidation of the National Geophysical Data Center, the National Oceanographic Data Center and the National Climatic Data Center. Within NCEI the Space Weather Team is responsible for supporting NOAA's space weather mission and for ensuring the operational and scientific utility of NOAA's space environmental data. The Geostationary Operational Environmental Satellite series R (GOES-R) is NOAA's next generation of spacecraft which will include a complement of space weather sensors to monitor the local space environment and the sun. The first GOES-R satellite is slated for a March 2016 launch. The GOES-R Space Environment In-situ Sensor Suite (SEISS) will measure the local energetic charged particle environment across a broad energy range and at multiple pitch angles.

The role of the Space Particles Post-Doc is to support the calibration and validation of the GOES-R SEISS. Specific tasks include investigating techniques for inverting differential flux spectra from broad energy channel measurements and for removing cross-species contamination, and documenting these corrections within an Algorithm Theoretical Basis Document (ATBD). The Space Particles Post-Doc will work as a member of the Space Weather Team to implement the correction within a real-time ground processing system. Applicants for this position should possess excellent scientific skills and a capacity for working within a team environment. Applicants should also possess strong attention to detail, good communication skills, and the ability to complete assigned tasks on time. The Space Particles Post-Doc position is located within the Solar Geophysics Branch of the NCEI Center for Coasts, Oceans, and Geophysics at the David Skaggs Research Center, Broadway, Boulder, CO.

Duties Include:

- Investigating algorithm methodologies to improve the quality of SEISS data.
- Selecting a methodology which best improves the SEISS data quality within the constraints of a real-time processing system.
- Preparing an ATBD to document and describe the selected approach.
- Implementing the methodology within a real-time ground processing system.
- Conducting related research leading to peer-reviewed publications.
- Other duties from time to time as needed.

Requirements & Desired Skills

- Ph.D. in physics or similar scientific discipline, or equivalent demonstrable experience.
- Excellent technical skills and experience handling space particle datasets.
- Strong background in the use of higher-level computer languages, such as Python.
- Ability to work cooperatively within a teaming environment.
- Good oral and written communication skills.
- U. S. citizenship or permanent resident status.



For further information, please contact Dr. William Denig (William.Denig@noaa.gov)

The position will be filled as a 1-year Research Associate (Post-Doc) at the University of Colorado at Boulder and will be eligible for employee benefits, including 22 days of vacation (for a 100% position) per year.

To Apply

You must use www.jobsatcu.com to formally apply for this position. Search for this position using job posting number RF02638. Be prepared to upload a cover letter, your current resume/cv, proof of your degree (upload under Doc 1, this can be a scan of your diploma or scan of transcripts confirming your degree) and all contact information for 3 references familiar with the applicant's professional qualifications for the position.

The University of Colorado is an Equal Opportunity Employer committed to building a diverse workforce. We encourage applications from women, racial and ethnic minorities, individuals with disabilities and veterans. Alternative formats of this ad can be provided upon request for individuals with disabilities by contacting the ADA Coordinator at (303) 492-1334. The University of Colorado at Boulder conducts background checks for all final applicants being considered for employment.