

CIRES/SWPC Research Associate

CIRES invites applications to fill a research associate position resident at the Space Weather Prediction Center to support the recently announced DSCOVR solar wind mission. SWPC will be receiving calibrated, processed data in near-real-time from the DSCOVR solar wind plasma and magnetometer instruments. CIRES is looking for applicants capable of producing science quality space weather products from the DSCOVR data. The successful applicant would work within the Applied Research and Testbed section of the Space Weather Prediction Center. The successful applicant will be expected to take the lead in producing the products for the benefit of SWPC forecasters and customers. In addition to the creation of products, the successful applicant will be expected to take the lead in producing the science versions of a portion of the algorithms needed for fully calibrated, processed data. In addition, SWPC is interested in research which enhances the ability to increase the utility of in-situ solar wind observations.

Tasks:

- Solar Wind Products
 - Prepare basic algorithms needed for Level 2 Faraday Cup and Magnetometer data, including required documentation
 - Research products related to DSCOVR data that could be beneficial to SWPC forecasters and/or customers
 - Determine product utility vs cost and work with SWPC to establish priorities.
 - Create testbed versions of high priority products, with appropriate documentation and within an appropriate architecture to facilitate transition to operations.
- Conduct self-directed research related to space weather priorities, as time allows

Skills:

- Ability to implement math models and algorithms as computer programs
- Ability to program in IDL or a similar language.
- Ability to think critically and make independent decisions.
- Ability to publish peer reviewed articles.

Knowledge:

- Familiarity with general principals of in-situ solar wind instrumentation
- Familiarity with solar wind physics, preferably demonstrated via a related degree and/or publication record
- General solar physics data analysis familiarity desired.

Required qualifications

The successful candidate will have completed a Doctoral program in Physics or Engineering.

Experience with in-situ instrument data analysis and programming skill in IDL or a similar language. Additional qualifications include a strong desire to be working in an operationally oriented environment, familiarity with solar wind plasma and/or magnetometer instrumentation. Strong communication skills and the ability to think independently are essential. Funding is available for at least 3 years.

The position will be filled as a Research Associate at the University of Colorado at Boulder and will be eligible for employee benefits, including 22 days of vacation per year. Screening will begin immediately and continue until filled.

To Apply:

Go to jobs at CU:

www.jobsatcu.com/applicants/Central?quickFind=67668

Be prepared to upload a cover letter, complete CV, and three names of reference including their contact information and Proof of highest degree (Doc 1).

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