Position Summary:
The Cooperative Institute for Research in the Atmosphere (CIRA), located on the CSU Foothills Campus approximately 5 miles northwest of CSU main campus, seeks to fill a part-time position to support research efforts in collaboration with the Regional and Mesoscale Meteorology Branch (RAMMB) of NOAA/NESDIS. The RAMMB is collocated with CIRA and conducts research on the use of satellite data to improve analysis, forecasts, and warnings for regions and mesoscale meteorological events. The individual in this position will work 24 hours per week, report to CIRA’s RAMMB IT Manager and assist processing and displaying atmospheric products in the Advanced Weather Interactive Processing System (AWIPS) in support of ongoing research-to-operational transition efforts. Specifically, this individual will install and manage AWIPS computing systems and support local CIRA AWIPS research efforts. This is a part-time, 60% FTE administrative professional position with salary and benefits pro-rated commensurate with FTE.

Decision Making:
Decision making depends on the analysis of the subject, phase, or issues involved in each assignment; the chosen course of action may need to be selected from many alternatives. The individual in this position will normally receive little instruction on day-to-day work and will receive general instructions on new assignments. They will set priorities that accurately reflect the relative importance of job responsibilities and established deadlines, and provide technical leadership to their teams, including making technical recommendations and decisions. Specific examples of decisions the individual in this position will make include the following:

- decide how to implement and automate products in NOAA/NWS automated operational computing environment;
- set meetings with developers and stakeholders to discuss and develop evaluation methodologies for effectiveness of new and existing infrastructure and then decide how to evaluate and implement the results;
- facilitate work with researchers on optimizing AWIPS product and image development.

Essential Job Duties:

**AWIPS Processing & Development (50%)**
- process and display atmospheric products in AWIPS (N-AWIPS, AWIPS II);
- install, deploy and troubleshoot AWIPS on 10+ local machines and utilize AWIPS in the cloud;
- assist product design and implementation from an AWIPS perspective.

**Scientific programming and Linux (25%)**
- command line Linux system administration (OS installation, bash scripting, rpm installation & development);
- bash, python and mcidas-x programming;
- manage the postgres database.

**Data & Image Manipulation (25%)**
- install, manage and serve Local Data Manager (LDM) data products;
- read, manipulate, and display a variety of scientific data sets.

Required Qualifications:
Please detail each of these items in your cover letter.

- Bachelor’s Degree in Computer Science, Atmospheric Science, or related field + 10 years of experience processing and displaying atmospheric products in AWIPS;
- ability to pass a National Agency Check with Inquiries (NACI, Tier-1 federal background check) in order to access federal computer systems;
• at least 10 years of experience reading and manipulating the following scientific data formats: hdf4, hdf5, netcdf, grib2, mcidas area formats, hdf-eos;
• experience programming in bash, python and mcidas-x;
• experience with AWIPS deployment and upgrades;
• experience with the National Hurricane Center (NHC) implementation of AWIPS;
• experience with RedHat/CentOS system management and command line interface;
• experience with programming, particularly in shell, fortran, mcidas-x and python;
• experience with postgres databases;
• experience with LDM;
• Occasional Travel to attend meetings/conferences/trainings may be required.
• Must be legally eligible to work in the United States by proposed start date because CIRA will not sponsor a visa for this position.

Preferred Qualifications:
Please highlight applicable preferred qualifications in your cover letter.
• experience with ImageMagick;
• experience with product delivery for real-time operations;
• experience with research-to-operational transition of atmospheric products;
• experience with ISATSS processing of satellite data for AWIPS.

Annual Salary: $120,000-$124,800 ($72,000-$74,900 @60% FTE) commensurate with experience and qualifications

Commitment to Diversity and Inclusion:
Reflecting departmental and institutional values, candidates are expected to have the ability to advance the Department's commitment to diversity and inclusion.

Application Deadline and How to Apply:
Applications will be accepted until the position is filled; however, to ensure full consideration applications should be submitted by 11:59 PM MT on Sunday, November 14, 2021. References will not be contacted without prior notification of candidates. Apply electronically by clicking “Apply to this Job” at the following website: https://jobs.colostate.edu/postings/94317. NOTE: In your cover letter, please specifically address the required and preferred qualifications of this position. A cover letter that fails to address the required and preferred qualifications of this position may not be further considered after review by the search committee.