The Cooperative Institute for Research in the Atmosphere (CIRA) and Colorado State University (CSU) seek to hire a Tropical Cyclone Product Developer and Facilitator, to be located in Fort Collins, CO. Position title of Research Associate I will apply to the finalist who possesses a Bachelor’s degree in atmospheric science, meteorology, computer science, or closely related field and 1 year of experience working with geophysical data analysis; otherwise the title of Research Associate II will apply to the finalist with a Bachelor’s degree in atmospheric science, meteorology, computer science, or closely related field and 3 or more years of experience working with geophysical data analysis.

The individual in this position will report to the Tropical Cyclone Specialist/Project PI and work with an interdisciplinary team of atmospheric researchers and hurricane forecasters to develop and implement tropical cyclone products for the National Hurricane Center (NHC). He/She will coordinate with researchers and stakeholders to facilitate the transition of research to operations in the Joint Hurricane Testbed (JHT) and the Geostationary Operational Environmental Satellite – R Series (GOES-R) Proving Ground. The individual in this position must have a combination of strong communication and project management skills, the ability to program and implement products on operational computing systems, and the understanding of the underlying science to evaluate the implemented tropical cyclone products.

The individual in this position will read, analyze, and plot atmospheric and oceanic datasets, and evaluate products based off those datasets and theoretical understanding of tropical cyclones, and so must have at least a BA/BS in atmospheric science, computer science or a related field, and related experience. Products at NHC are run in an automated operational environment, so this individual in this position must also have experience in the use of Fortran, shell scripting, and/or Python and should possess experience in writing automation software. Experience working on NOAA operational computing systems is preferred. The individual in this position will need to work closely with university, federal, and private sector researchers/developers and NHC staff, and will travel to NHC (www.nhc.noaa.gov) in Miami, FL on a regular basis. The individual in this position must have ability to pass a National Agency Check with Inquiries (NACI, federal background check) in order to access federal computer systems.

Decision Making:
The individual in this position will make decisions about implementing new TC products in operations based upon his/her analysis of atmospheric and oceanic fields, the technical requirements of NOAA/NHC real-time computing environments, and requirements and feedback from developers and stakeholders. They will work both independently and collaboratively with developers and stakeholders, and will conduct regular meetings to develop and evaluate products and set priorities. Specific decision-making activities are described as follows:

- decides design and content of products for NHC using knowledge of atmospheric science and experience in atmospheric science datasets and products;
- sets meetings with developers and stakeholders to evaluate experimental product design and then decides which feedback to implement and how to implement it into final products;
- decides how to implement and automate products in NOAA/NHC’s automated operational computing environment;
- sets meetings with developers and stakeholders to discuss existing and new products and then decides product feasibility and priority.

Essential Job Duties:
Joint Hurricane Testbed Facilitator (50%)
- work with NHC to improve and maintain operational datasets and software in support of JHT projects;
- work closely with developer groups to integrate JHT projects into operations;
- develop product evaluation suites;
- assess synergies between JHT projects and examine potential long-term product creation and improvement;
- conduct regular meetings with developers and stakeholders;
- travel to NHC for product implementation testing, evaluation, and meetings.

GOES-R Proving Ground (30%)
- work closely with developer groups to implement GOES-R Proving Ground projects and integrate into operations at NHC;
- collect stakeholder feedback on GOES-R products;
- conduct regular meetings with developers and stakeholders;
- travel for product implementation testing, evaluation, and meetings.

Scientific Computing Support (20%)
• work with CIRA researchers to develop and implement scientific software to meet various project goals;
• work with CIRA researchers to streamline transition of research to operations.

Required Qualifications:
• for Research Associate I: Bachelor’s degree in atmospheric science, meteorology, computer science, or closely related field plus 1 year of experience working with geophysical data analysis;
• for Research Associate II: Bachelor’s degree in atmospheric science, meteorology, computer science, or closely related field plus 3 or more years of experience working with geophysical data analysis;
• ability to pass a National Agency Check with Inquiries (NACI, federal background check);
• strong technical computing skills;
• strong verbal and written communication skills;
• strong project management skills and adaptability;
• ability to work independently;
• ability to work in a collaborative team environment;
• experience with programming and scripting languages, particularly Fortran, shell, and/or Python;
• must be legal to work in the United States by proposed start date; CIRA will not sponsor a visa for this position.

Preferred Qualifications:
• Master’s degree in atmospheric science, meteorology, computer science, or closely related field;
• previous experience with tropical cyclone research;
• experience with Linux or Unix operating systems;
• experience writing automation software;
• experience with AWIPS2/N-AWIPS workstations;
• experience with netCDF/HDF, GRIB, and BUFR file processing;
• experience working on NOAA operational computing systems and with NOAA protocols;
• experience using geostationary and polar-orbiting satellite data.

Annual Salary: Commensurate with qualifications; typical hiring salary in the range of $40,000 to $65,000/year

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 December 9, 2018. Apply electronically by clicking “Apply to this Job” at the following website: http://jobs.colostate.edu/postings/62399. References may be contacted immediately and without further notification to the candidate. 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.

Background Check:
Colorado State University (CSU) strives to provide a safe study, work, and living environment for its faculty, staff, volunteers and students. To support this environment and comply with applicable laws and regulations, CSU conducts background checks. The type of background check conducted varies by position and can include, but is not limited to, criminal (felony and misdemeanor) history, sex offender registry, motor vehicle history, financial history, and/or education verification. Background checks will be conducted when required by law or contract and when, in the discretion of the university, it is reasonable and prudent to do so. In addition, the final candidate will be required to pass a National Agency Check with Inquiries (NACI, federal background check).

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.

Colorado State University is committed to providing an environment that is free from discrimination and harassment based on race, age, creed, color, religion, national origin or ancestry, sex, gender, disability, veteran status, genetic information, sexual orientation, gender identity or expression, or pregnancy and will not discharge or in any other manner discriminate against employees or applicants because they have inquired about, discussed, or disclosed their own pay or the pay of another employee or applicant. Colorado State University is an equal opportunity/affirmative action employer fully committed to achieving a diverse workforce and complies with all Federal and Colorado State laws, regulations, and executive orders regarding non-discrimination and affirmative action. The Office of Equal Opportunity is located in 101 Student Services. The Title IX Coordinator is the Executive Director of the Office of Support and Safety Assessment, 123 Student Services Building, Fort Collins, CO 80523 –2026, (970) 491-7407. The Section 504 and ADA Coordinator is the Executive Director of Human Resources and Equal Opportunity, Office of Equal Opportunity, 101 Student Services Building, Fort Collins, CO 80523-0160, (970) 491-5836.