

CIWRO Research Associate – Boundary-Layer Data Manager and Analyst

The Cooperative Institute for Severe and High-Impact Weather Research and Operations (CIWRO, formerly CIMMS) at The University of Oklahoma is currently seeking a Research Associate to collaborate with scientists at the National Severe Storms Laboratory (NSSL) in Norman, OK, on collecting, managing, and maintaining boundary-layer observation datasets. The position is based at CIWRO in Norman, Oklahoma within the National Weather Center.

Background:

CIWRO, NSSL, the School of Meteorology at the University of Oklahoma, and the broader research community at the National Weather Center (NWC) have long collaborated on pioneering research on mesoscale and boundary layer meteorology and severe storms and their impacts. The Boundary Layer Integrated Sensing and Simulation (BLISS) group at NWC is an example of this collaboration, and acts as an umbrella under which those with research interests in boundary layer meteorology can come together and collaborate. This position focuses on data organization and management and includes data analysis under the umbrella of creating, evaluating and/or improving value-added products from CIWRO and NSSL in-situ, remote, and image-based observations. The incumbent will be part of the collaborative and supportive BLISS team of researchers with diverse interests, and this position is a key element to the team model.

The duties of this position are:

1. Maintain, contribute to, or implement boundary-layer dataset storage and archives in accordance with relevant data management policies (e.g., NOAA, grant-dictated, etc.)
2. Collaborate with researchers to design value-added products to meet scientific research needs,
3. Collaborate with instrument mentors and researchers to design, implement, or maintain data flow between operating instruments and data storage architecture solutions (which may include data ingest, quality control, analysis, storage-to-archival processes, real-time processing, etc.)
4. Support field programs by maintaining workflows (data ingest, quality control, analysis, and storage-to-archival processes) as well as any real-time processing and data visualization tools, which may include deployment to the field.
5. Participate in a collaborative working environment made up of scientists, staff, and students from multiple groups and institutions while maintaining the ability to execute tasks independently.

The minimum qualification for the position are any of the following:

- MS in Meteorology, Atmospheric Science, or related area and at least one year experience (including during the Master's research) related to these job duties;
- BS in Meteorology, Atmospheric Science, or related area and at least three years' experience related to these job duties;

- MS in Computer Science, Data Science, or related area, with interest in earth-system and/or atmospheric datasets
- BS in Computer Science, Data Science, or related area and at least three years of relevant full-time experience, with interest in earth-system and/or atmospheric datasets

Emphasis will be placed on applicants with technical skills and experience in areas relating to programming; data structures and algorithms; source/version control; networking and network management; and atmospheric or earth-system data quality, control, and visualization.

Applicants should identify expertise within any of the following areas: programming skills in any language with focus on Python, Fortran, Javascript, SQL, Bash/Shell; THREDDS data servers or other data server management; Github; meteorological dataset interrogation; cloud computing

Normal working hours will be routinely observed with some occasional irregular hours during active field deployments either when deployed with the team, or when technical support is needed to maintain data systems. Incumbents will receive training and gain expertise with the latest observation platforms available to the CIWRO and NSSL team. As an affiliate of NSSL, training will also be available on federal information technology practices and protocols via frequent web-based seminars and workshops, etc.

Supervision will be provided by CIWRO staff. Technical oversight will be provided by CIWRO and NSSL scientists. The incumbent will work under general supervision but is expected to complete work independently. The incumbent in this position is not expected to supervise other employees but may serve as lead of technical teams and work with students.

The beginning salary will be based on qualifications and experience with University benefits. Information on benefits may be found at <http://www.hr.ou.edu>. The position will be located in Norman, OK with a negotiable start date (Fall/Winter 2021 ideal).

To apply for the position, please forward your resume, cover letter and list of three references to:

CIWRO Careers
University of Oklahoma CIWRO
120 David L. Boren Blvd., Suite 2100
Norman, OK 73072-7304
ciwro-careers@ou.edu

JOB REFERENCE: BL Data Manager

The University of Oklahoma is an equal opportunity/Affirmative Action employer.

The University of Oklahoma has a mandatory COVID-19 vaccine requirement, with exceptions only for approved medical or religious accommodations. As a condition of employment, newly hired employees must provide proof of vaccination or initiate the accommodations process before their first day of employment.