

CIWRO Research Scientist – Boundary-Layer Networked Observation Development

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 Scientist to collaborate with scientists at the National Severe Storms Laboratory (NSSL) in Norman, OK, on potential next-generation boundary-layer observation networks by analyzing networked, high-resolution 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. The incumbent in this position would focus on creating four-dimensional value-added products from these datasets, evaluating network configurations, and measuring the operational value of such networks. They would be part of the collaborative and supportive BLISS team of researchers with diverse interests, and this position adds to the breadth of ongoing research bringing sensing and simulation methods together.

The duties of this position are:

1. Explore potential next-generation boundary-layer observation networks by developing and evaluating methods to combine networked boundary-layer observations to provide new and innovative products
2. Diagnose utility of various network configurations with both Observing System and System Simulation Experiments; OSEs and OSSEs (e.g., in collaboration with NSSL Warn on Forecast System team)
3. Conduct field deployments and data analysis in support of these goals and in support of colleagues when feasible
4. Present findings and results via publications and presentations at national/international conferences
5. Build an independent boundary-layer and observation research portfolio while contributing to a collaborative research environment

The minimum qualifications for the position are:

- A PhD in Meteorology, Atmospheric Science, or related area
- Experience working with meteorological observation data (preferably boundary-layer observations)

Emphasis will be placed on applicants with technical skills and experience in areas relating to boundary-layer meteorology; operation of observation platforms; programming (Python is the dominant language in use)

Applicants should identify expertise within any of the following areas: mesoscale modeling; data assimilation; retrievals; objective analysis; analysis of boundary-layer observations (be specific about observation platform); profiler networks

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. The incumbent will receive training and gain expertise with the latest observation platforms available to the CIWRO and NSSL team.

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 and develop an independent research portfolio while still contributing to the group working environment.

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 an ideal start date of January 2022.

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 Networks

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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.