



Postdoctoral Research Associate – Probabilistic Hazard Information (PHI)

Overview

The Cooperative Institute for Severe and High-Impact Weather Research and Operations (CIWRO) seeks to fill a Postdoctoral Research Associate position for its collaborative research as a Cooperative Institute with the National Oceanic and Atmospheric Administration (NOAA) Office, specifically with the National Severe Storms Laboratory (NSSL) in Norman Oklahoma. This Postdoctoral Research Associate position will advance the Probabilistic Hazard Information system (PHI) using Artificial Intelligence/Machine Learning (AI/ML).

Job Responsibilities

- Advance PHI research and development activities to enhance rapidly-updating probabilistic severe weather hazard forecasts using AI/ML.
- Collaboratively design and implement tools for Warn-on-Forecast (WoFS) and ensemble model integration with PHI, data analysis, visualization, verification, explainability, and other AI-driven advancements.
- Assist with the development, facilitation, and data analysis of user-engagement/Hazardous Weather Testbed (HWT) activities involving WoFS and PHI.
- Serve as a lead or contributing author on scientific manuscripts for peer-reviewed publications and present research findings at conferences, workshops, and symposia.
- Creatively and efficiently solve scientific problems, both independently and as an integral member of the research team.

Qualifications:

- Ph.D. in Meteorology, Computer Science, Software Engineering or a related field.
- Solid understanding of physical- and AI-based atmospheric modeling systems.
- Knowledge and experience in relevant sciences and technologies, including AI/Machine Learning, meteorology, programming, computing, and data science.
- Proficiency in languages like Python and experience with HPC environments.
- Excellent oral and written communication skills with an ability to work both independently and cooperatively with others.

Benefits and Work-Life Balance

Joining our team comes with numerous benefits, including:

- Competitive salary based on experience; comprehensive university benefits (<http://hr.ou.edu/>).
- Generous paid leave, encompassing 14 paid holidays and 22 hours of accrued paid time off per month.
- Reduced membership at the University of Oklahoma's state-of-the-art fitness and aquatic center (<https://www.ou.edu/far>).

More details about working at the University of Oklahoma, benefits packages, as well as living in Norman, Oklahoma are provided on our website: <https://jobs.ou.edu/Discover-OU>.

We are dedicated to promoting a healthy work-life balance by championing a flexible work culture, offering adaptable work hours and a hybrid work arrangement. This empowering framework enables team members to seamlessly navigate personal commitments while effectively contributing to their professional responsibilities.

How to apply

Applications should be mailed to ciwro-careers@ou.edu Attn: PHI and include a cover letter, the names and contact information for 3 references, and your resume/cv. The cover letter must highlight your interest in the position and describing how you meet the position qualifications, Applications will be accepted until the position is filled. The starting date is negotiable.

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