Research Scientist – Extended-Range Severe Weather Predictability

Position Description

The Cooperative Institute for Severe and High-Impact Weather Research and Operations (CIWRO) at the University of Oklahoma currently is seeking a research scientist to investigate the predictability of severe weather at the extended-range using a state-of-the-art models funded by the National Severe Storms Laboratory (NSSL)/Geophysical Fluid Dynamics Laboratory (GFDL) Global Nest project The scientist will develop work that seeks to improve the prediction and our understanding of severe weather at timescales of two weeks or more . The primary tasks of this position is to verify medium-range convection-allowing forecasts for different model configurations, examine sources of predictability with the model forecasts, and facilitate a Hazardous Weather Testbed experiment on extended-range predictability of severe weather. This position will be located in Norman, Oklahoma at the National Weather Center on the campus of the University of Oklahoma.

Job Responsibilities

- Lead verification of convection-allowing extended-range severe weather forecasts;
- Lead case study analysis using both dynamical diagnostics and ensemble sensitivity techniques to evaluate how circulation errors evolve differently in global versus nested domains;
- Lead development and testing of experimental extended-range severe weather forecast products as part of a Hazardous Weather Testbed experiment;
- Lead focused analyses of periods of anomalously high or low forecast skill to better understand multiscale sources of predictability using environmental diagnostics and machine-learning-based methods;
- Attend meetings and professional conferences to present research results and interact with collaborators;
- Lead and provide support for regular summaries of work accomplished through reports and/or peer-reviewed publications as needed;
- Collaborate on scientific proposals for research related to extended-range prediction of severe storms and their attendant hazards.

Qualifications

- Ph.D. in Meteorology, Atmospheric Science, or a related area;
- Preferred expertise investigating severe weather (e.g., tornadoes), phenomena impacting its extended-range prediction (e.g., Madden-Julian Oscillation), and/or model diagnostics and verification;
- Experience with scientific programming on Linux systems using a high-level language (e.g., C++, Python, Java);
- Strong oral and written communication skills.

  This position requires physical presence in Norman but ay permit a hybrid work schedule.

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 15 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.

Application Process

To apply, please submit:

- A cover letter highlighting your interest in the position and describing how you meet the position qualifications,
- Your up-to-date resume/CV, and
- A list of three professional references.

Send your application materials to: ciwro-careers@ou.edu. Please use the subject line: "**ATTN: Research Scientist - Extended-Range Severe**." 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.