



Postdoctoral Research Associate – Improving Short-term Fire Weather Warning Guidance

Position Description

The Cooperative Institute for Severe and High-Impact Weather Research and Operations (CIWRO) seeks a highly motivated individual to improve high resolution fire weather warning guidance using high-resolution forecast models such as the National Severe Storms Laboratory (NSSL) Warn-on-Forecast System (WoFS). The duties for this position include integrating fire spread models with the Warn-on-Forecast System, development of innovative probabilistic guidance products for fire spread, and design and application of novel verification methods for fire spread forecasts using radar and satellite observations. This position is part of the Severe Convective Probabilities and Impacts (SCPI) team at CIWRO, located in the National Weather Center in Norman, Oklahoma.

Job Responsibilities

As a CIWRO Postdoctoral Research Associate supporting fire weather research your key duties include:

- Develop capabilities for predicting wildland fire spread using the Warn-on-Forecast System (WoFS).
- Generate objective verification metrics for forecasts of wildfire spread using radar and satellite observations.
- Contribute to a multi-disciplinary team working towards improved capabilities for warning the public of wildfire threats.
- Tasks may include participation in real-time forecasting activities and data collection activities associated with prescribed burns.
- Lead and contribute to scientific manuscripts for peer-reviewed publications and present research findings at conferences, workshops, and symposia.

Qualifications

- A PhD in Meteorology or a STEM field relevant to the position
- Demonstrated experience in one or more topics including numerical weather prediction, fire spread modeling, remote sensing, wildfire fuels, and/or fire weather forecasting expertise.
- Experience developing scientific, engineering, or data-analysis software using one or more programming languages, with the ability to learn new tools and computing environments as needed.
- Excellent written and oral communication skills, with an ability to work both independently and cooperatively with others.

Benefits

Joining our team comes with numerous benefits, including:

- Competitive salary based on experience and comprehensive university benefits.
- 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.

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

How to Apply

Applications should be emailed to ciwro-careers@ou.edu, Attn: Fire, and include:

- A cover letter highlighting your interest in the position and describing how you meet the position qualifications,
- The names and contact information for three references
- Your résumé/CV

The cover letter must highlight your relevant qualifications and how they can contribute to high resolution fire weather forecasting. 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.