



Research Scientist/Associate – MRMS Radar Research

Position Description

The Cooperative Institute for Severe and High-Impact Weather Research and Operations (CIWRO) at The University of Oklahoma is currently seeking a Research Associate or Research Scientist to advance radar science and algorithm development within the Multi-Radar Multi-Sensor (MRMS) system. The MRMS system consists of fully-automated algorithms that quickly and intelligently integrate data streams from multiple radars, surface and upper air observations, lightning detection systems, satellite observations, and forecast models. This collaborative work with NOAA's National Severe Storms Laboratory (NSSL) presents an exciting opportunity to shape the future of weather radar applications and contribute to cutting-edge research and development of radar data fields and radar-derived quantitative precipitation estimations (QPEs). This position will help with the development and testing of various aspects of the MRMS system, including radar mosaics, radar data quality control, and radar-based QPEs.

Job Responsibilities

- Contribute to the design, implementation, and testing of algorithms designed to help with the data quality control of various radar fields
- Contribute to the advancement of radar-derived precipitation estimations within the MRMS system
- Acquire the knowledge and skills necessary to support and update the MRMS system codes and techniques
- Work with an interdisciplinary team of scientists and engineers to design, develop, and implement radar-based enhancements and improvements to the MRMS system
- Attend meetings and professional conferences to present research results and interact with collaborators
- Provide support for regular summaries of work accomplished through reports and/or peer-reviewed publications as needed
- (Research Scientist only) Lead research that will help with the seamless integration of supplemental radars into the MRMS system

Qualifications

We are looking for candidates who possess:

- Ph.D. (Research Scientist) or M.S. (Research Associate) in Meteorology, Atmospheric Science, or a related field
- Knowledge in radar meteorology
- Proficiency in high-level programming languages
- Strong ability to research, troubleshoot, and independently resolve unfamiliar problems
- Excellent oral and written communication skills with an ability to work both independently and cooperatively with others

It is preferred that applicants demonstrate expertise within one or more of the following areas (an applicant need not demonstrate experience in all areas to be considered): radar data processes and variables, radar data quality control, and/or precipitation estimation. Preferred programming proficiency should include C++, Perl, and/or Python. Proficiency in AWS or other Cloud computing platforms are desired but not required.

Based at the National Weather Center in Norman, OK (<https://www.ou.edu/nwc>), this position promises not only professional growth and promotion potential but also the chance to impact the broader scientific community. This position requires physical presence in Norman but may permit a hybrid work schedule.

Benefits and Work-Life Balance

Joining our team comes with numerous benefits, including:

- Competitive salary based on experience and comprehensive university benefits (<http://hr.ou.edu/>).
- Generous paid leave, encompassing 15 paid holidays and 22 hours of paid time off per month.
- Reduced membership rates 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: civro-careers@ou.edu. Please use the subject line: "ATTN: Research Scientist – MRMS Radar Research." Applications will be accepted until the position is filled. The starting date for the position is negotiable.

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