

CIMMS Computer Engineer - Radar

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) seeks to fill a Research Associate position for projects funded by the National Oceanic and Atmospheric Administration (NOAA) Office of Oceanic and Atmospheric Research (OAR) National Severe Storms Laboratory (NSSL). The Research Associate will contribute to research and development of radars and other sensors in support of the CIMMS mission.

Background:

NSSL and CIMMS have long collaborated to conduct pioneering research to advance radar technology for meteorological applications. The Advanced Technology Demonstrator (ATD) is a recent example of this effort: it is a full-scale, dual-polarized, phased-array weather radar. The incumbent will apply Computer Engineering expertise working in a multidisciplinary team to maintain and improve the ATD and other radar systems and associated equipment in support of the CIMMS mission. The incumbent will also be involved in the design and implementation of new sensors in support of meteorological and hydrological research. This position does not require specialized knowledge of radar engineering, radar meteorology, remote sensing, or atmospheric science.

Responsibilities:

The incumbent will:

- Collaboratively work in an interdisciplinary team to develop, implement, test, document, maintain, and/or enhance computer applications for NSSL radar systems and associated measurement/test equipment. Projects are focused on software applications for radar/equipment monitoring and control and may involve working on low-level software applications for embedded systems, microcontrollers, and/or single-board computers.
- Follow best practices for configuration management, concurrent development, and production of technical documentation.

Required Qualifications:

- United States citizenship or permanent residency.
- A Master's degree in Computer Engineering, Computer Science, Electrical Engineering, Physics, or related field OR a Bachelor's degree in the same fields with at least 2 years of relevant experience.
- Demonstrated experience with low-level programming for hardware monitoring and control using C or C++.
- Demonstrated experience with high-level programming for data analysis and visualization, preferably including large data sets (e.g., MATLAB, Python).
- Ability to work in Unix/Linux operating systems, including basic system administration.
- Strong oral and written communication skills.
- The ability to work both independently and cooperatively in an interdisciplinary team.

The starting salary will be based on qualifications and experience, with benefits provided through the University of Oklahoma (<https://hr.ou.edu/>). The start date for the position is negotiable.

This position is a full-time appointment funded by grants from NOAA. The appointment is contingent on passing a Department of Commerce/NOAA background check. The appointee will serve a customary probationary period during the first year.

To apply, please forward your resume, cover letter describing relevant computer engineering experience, and contact information for three references to:

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