CIMMS Research Associate – Meteorological Software Developer

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma is currently seeking a Research Associate to collaborate with scientists, instructors and developers at the National Weather Service (NWS) Warning Decision Training Division (WDTD) in Norman, OK, in enhancing the Weather Event Simulator for AWIPS-2 and transitioning the software into AWIPS-2 baseline code.

The duties of this position are:

1) Develop technical expertise with the AWIPS-2 (Advanced Weather Interactive Processing System) software.
2) Develop and add functionality to the Weather Event Simulator software for AWIPS-2 compatibility.
3) Develop the Weather Event Simulator software to enhance utility by NWS field office staff including forecasters, science officers and focal points.
4) Adapt the Weather Event Simulator software for potential use on the NWS operational hardware and software platforms.
5) Acquire skills in operation of Linux and Windows workstations and virtual machines.
6) Participate in experimental warning/forecast exercises and WDTD training workshops.
7) Review technical/professional publications and attend seminars to stay abreast of current developments in meteorological software applications.
8) Perform related duties as assigned.

The minimum qualifications for the position are:

1) A Master’s Degree in Computer Science, Computer Engineering, Meteorology, Atmospheric Science, or related area; or
2) A Bachelor’s Degree in Computer Science, Computer Engineering, Meteorology, Atmospheric Science, or related area and at least three years fulltime related experience.

Emphasis will be placed on applicants with software support and development experience including:

- Strong knowledge of Java, Eclipse, and/or Python
- Basic understanding of relational database design
- Intermediate knowledge of standard query language (SQL) for simple to complex queries
- Strong understanding of Object Oriented Programming
- User Interface Design using tools like SWT

Applicants should identify expertise within any of the following areas: Linux shell scripting or software/hardware support; Service Oriented Architectures or the Spring framework; Hibernate; SWT or Eclipse RCP; PostgreSQL database; Experience with basic computer networking; XML; Eclipse Integrated Development Environment; Project management, teamwork; Oral and written communications.

Normal working hours will be observed except for occasional irregular hours during data
collection, warning/forecast experiments, or workshops conducted at remote sites. Incumbents will receive training and gain expertise in the latest training technology and warning decision-making methodologies.

Supervision will be provided by CIMMS staff. Technical oversight will be provided by CIMMS staff, NWS meteorologists, and WDTD management. The incumbent will work under general supervision but is expected to determine action to be taken in handling all but unusual situations. Incumbents in this position are not expected to supervise other employees, but may serve as leaders of technical teams.

The beginning salary will be based on qualifications and experience with full benefits (insurance and retirement) and a generous leave policy provided through The University of Oklahoma (https://hr.ou.edu/). The start date for the position is negotiable.

To apply for the position, please forward your resume, cover letter and list of three references to:

Tracy Reinke  
Executive Director, Finance and Operations  
University of Oklahoma CIMMS  
120 David L. Boren Blvd., Suite 2100  
Norman, OK 73072-7304  
treinke@ou.edu

JOB REFERENCE: Meteorological Software Development

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