

Research Associate

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma is currently seeking a Research Associate to collaborate with scientists and instructors at the National Weather Service (NWS) Warning Decision Training Branch (WDTB) in Norman, OK, on developing meteorological and hydrological training materials and enhancing the Weather Event Simulator (WES) for the AWIPS-II System.

The duties of this position are:

- 1) Assist WDTB staff with development and implementation of operational, cutting-edge, meteorological applications in training simulations for the WES-2 Bridge (Weather Event Simulator) for the AWIPS-2 system used by operational NWS forecasters.
- 2) Develop expertise in software development of simulation technology for a variety of severe and hazardous weather warning training scenarios based on warning decision making principles of science, technology, and human factors.
- 3) Collaborate with WDTB instructors and other stakeholders to develop and deliver training on hydrological and severe weather warning decision making.
- 4) Develop technical expertise with AWIPS-2 (Advanced Weather Interactive Processing System), the WSR-88D (Weather Surveillance Radar-1998 Doppler), and the warning decision-making process.
- 5) Acquire skills in operation of Linux and Windows workstations and virtual machines.
- 6) Participate in experimental warning/forecast exercises and WDTB 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 experience in software development or applied research.

Emphasis will be placed on applicants with software development experience, particularly using Java, object oriented programming (OO), and/or service oriented architectures (SOA).

Applicants should identify expertise within any of the following areas: software development experience with Java or Python; multi-thread/multi-processing programming models; Eclipse Integrated Development Environment; weather data formats and types and/or GIS; weather analysis software (such as AWIPS); graphic design or illustration; analysis, forecasting, or warning skills for severe weather, flash flooding, tropical weather or winter weather; experience with creating hydrological or meteorological education or training; project management/teamwork; oral and written communication; Linux (or Unix) operating systems; human factors/human evaluation.

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 WDTB 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 range will be \$40,000-\$42,000 per year with University of Oklahoma benefits. Information on benefits may be found at <http://www.hr.ou.edu/employment/WorkingatOU.asp>.

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

Tracy Reinke
Executive Director, Finance and Operations
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JOB REFERENCE: WDTB – WES

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