

## **Software Development Research Associate**

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma currently is seeking a software development research associate to collaborate with scientists in the National Severe Storms Laboratory's (NSSL) Warning Research & Development Division. The appointee will assist the implementation of multi-radar/multi-sensor (MRMS) severe weather and hydrometeorological applications into the National Center for Environmental Prediction's Gridpoint Statistical Interpolation (GSI) data assimilation system.

Some duties of this position are:

- 1) Ingest of NSSL's MRMS data and products into the GSI environment.
- 2) Implement simple capability for producing an analyzed radar reflectivity field with 3DVar only.
- 3) Support and participate in applied research and development of GSI.

The minimum qualifications for the position are:

- 1) A Masters Degree in Computer Science/Software Engineering, Meteorology, Atmospheric Science

Applicants should identify expertise with any of the following areas: Computer Programming; Visualization; Familiarity in working with Doppler radar observations (e.g. processing, interpolation, quality control, data assimilation, etc.); Familiarity with high performance computers and parallel computing (MPI, openMP); Proficiency in working with unix/linux OS, experience in programming (FORTRAN and FORTRAN compilers and utilities, unix shells and scripting, workflow management, C, etc.); Competence in handling large computational community codes and data sets as well as with using major graphics and data analysis packages (Python, GrADS, NCL, etc.), familiarity with MS Office and Open Office. Desired skills include experience in the discipline of data assimilation, experience with BUFR, nemsio, GRIB1, GRIB2, and NetCDF data formats. Experience with working with version control software (e.g. subversion)

General supervision will be provided by the CIMMS and NCEP leadership. Technical oversight will be provided by CIMMS staff, NSSL and NCEP scientists, and NSSL management. Appointee will work under general supervision but is expected to determine action to be taken in handling all but unusual situations. Incumbent in this position is not expected to supervise other employees, but may serve as a leader of technical teams.

The beginning salary will be competitive for this position, and be dependent on experience. The University of Oklahoma provides a generous benefits package. Information on benefits may be found at <http://www.hr.ou.edu/employment/WorkingatOU.asp>. The position is expected to begin July 2014.

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

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Executive Director, Finance and Operations  
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Job Requisition – Development RA

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