

FACULTY POSITIONS AT THE UNIVERSITY OF OKLAHOMA
Supporting the University's Strategic Initiative
In
Radar Meteorology and Engineering

The University of Oklahoma (OU) invites applications for two new faculty positions. These positions are being established to further advance the University's strategic initiative to develop an internationally preeminent weather radar program (Radar Initiative) in collaboration with Federal and corporate partners. Since 2003, eight new faculty have been hired as part of this Initiative: three in the School of Meteorology, one in the School of Computer Science, three in the School of Electrical and Computer Engineering, and one in the School of Civil and Environmental Engineering. The University's efforts are focused in the Atmospheric Radar Research Center, which recently completed a Radar Innovations Laboratory as a dual teaching-research environment for building and supporting the field testing of radar prototypes.

Atmospheric Data Assimilation: Applicants must have demonstrated expertise in advanced atmospheric data assimilation using, for example, variational and ensemble-based methods. Demonstrated strengths in developing and applying advanced techniques to real-world numerical weather prediction problems, in particular, with direct use of remote sensing (radar, satellite, etc.) data, are strongly desirable. The successful candidate will collaborate with various research and academic programs in the National Weather Center, especially those involved in the Radar Initiative, and particularly in the area of advanced radar data assimilation and convective-scale numerical weather prediction.

Visual Analytics: Applicants must have demonstrated expertise in visualization and computational integration of large-scale multidimensional, complex meteorological and geospatial data. Desirable expertise includes but is not limited to geovisualization, spatiotemporal data mining, and/or computational statistics for large-scale scientific data analysis and exploration. The successful candidate will collaborate with various research and academic programs in the National Weather Center, especially those involved in the Radar Initiative, and in the area of advanced radar displays and innovative products derived from radar and other meteorological data streams. Expertise in bridging weather data with other biological or social applications is also desirable.

An earned doctorate is required. The successful candidates will be expected to develop and lead significant externally funded research programs, publish in refereed journals, demonstrate a strong commitment to excellence and innovation in undergraduate and graduate teaching, and participate in departmental, University, and professional service and outreach.

These positions are available 15 August 2008. Rank and tenure status (tenured or tenure track) are open and will be decided based on the successful candidate's professional credentials. The academic home departments are open and will be decided based upon a variety of factors including the successful candidate's credentials, interests, programmatic fit, and congruence with Radar Initiative goals (information on this initiative and its goals can be found at <http://nwc.ou.edu/radarinitiative.php>). Distribution of effort between teaching, research and development, and service/outreach is open and will be negotiated with the relevant dean before appointment.

An application should include a letter of interest describing the applicant's professional goals, views on teaching, research and development, and outreach; a complete *curriculum vitae* or resume; and the names and complete contact information for three to six individuals who can provide references. Review of applications will begin immediately upon receipt; applications will be considered until the positions are filled.

Applications should be sent to Dr. John T. Snow, Dean, College of Atmospheric and Geographic Sciences, The University of Oklahoma, 120 David L. Boren Blvd, Suite 1100; Norman, OK 73072; telephone 405-325-3095/FAX 405-325-3148/e-mail jsnow@ou.edu. Additional information may be obtained from the following web pages: The University of Oklahoma – <http://www.ou.edu>; the Atmospheric Radar Research Center (<http://arrc.ou.edu>); and the National Weather Center -- <http://nwc.ou.edu>.

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Women and minorities are encouraged to apply