THE UNIVERSITY OF ALABAMA IN HUNTSVILLE

ATMOSPHERIC SCIENCE

**Assistant Professor in GIS & Remote Sensing – Department of Atmospheric Science**
**The University of Alabama in Huntsville**

The Department of Atmospheric Science at the University of Alabama in Huntsville (UAH) seeks applicants for an assistant professor faculty position. The successful candidate will be asked to enthusiastically contribute to the Department of Atmospheric Science programs of B.S. and M.S. in Earth System Science (ESS) and M.S. and Ph.D. in Atmospheric Science. Responsibilities of the position will include teaching graduate and undergraduate courses and providing effective service to the growing department, University and the larger community while also enhancing their own research program through student mentorship, submission of peer-reviewed proposals and papers.

Applicants must have a Ph.D. in Atmospheric or Earth Science or related field. Candidates should have a developing record of scholarship, teaching experience and demonstrate significant future promise in securing research funding.

Research experience in Earth Science remote sensing theory and applied use of remote sensing and Geographic Information Systems (GIS) is required. Experience in information science infrastructure development is desirable but not required. Candidates should have an emerging research program that can respond to evolving funding opportunities and also complement ongoing research at UAH (http://www.uah.edu/science/departments/atmospheric-science/research). Candidates should be capable of developing collaborations with industry partners in the adjacent Cummings Research Park, the second largest research park in the country. Expected teaching capabilities include graduate and undergraduate level courses in principles of remote sensing and applications of remote sensing and GIS.

The chosen candidate will be offered a highly competitive salary and start-up package, and have full access to high-quality research space, state-of-the-art instrumentation and observational datasets, as well as to computing and facilities in academic and research center units. The successful candidate will benefit from potential collaborations within a wide array of nationally and internationally recognized research and operational organizations hosted at the National Space Science and Technology Center (NSSTC), including NASA Marshall Space Flight Center's Earth Science Office, the co-located Huntsville National Weather Service Forecast Office, the Earth System Science Center (ESSC), and the Severe Weather Institute and Radar & Lightning Laboratories (SWIRLL).

Required application materials include curriculum vitae, names of four references and statements of teaching and research philosophies. The candidate must also outline how their scientific skills will enhance the department's ongoing research, teaching and outreach activities. Email the application material to chair@nsstc.uah.edu. Please contact Dr. Larry D. Carey, Chair of the Atmospheric Science Department at the University of Alabama in Huntsville for further information (chair@nsstc.uah.edu). Information about the department can be found at: http://www.nsstc.uah.edu/atmos/.

Review of applications will begin on 2 November 2015 and continue until the position is filled.

**The University of Alabama in Huntsville** is a Carnegie very-high-research activity institution with $75 million in research expenditures, total annual research funding of $97 million and a student body of just under 8,000 in 2014. UAH is ranked by the NSF in the top 20 in the nation for federal funding of research in aeronautical & astronautical engineering, astronomy, atmospheric science, computer science, and management & economics, and is in the top 20 in total research funding from Department of Defense and NASA. In 2014, UAH was named by PayScale Inc. as the best return on investment (ROI) among all Alabama schools for both in-state and out-of-state students. It was also ranked in the top 100 nationwide.

The Huntsville metropolitan area is a culturally diverse community with a population of about 400,000 and a high concentration of technical professionals. The area is home to more than 50 Fortune 500 companies including several federal research facilities – NASA Marshall Space Flight Center and the Army's Missile Defense Agency, Material Command, Aviation and Missile Command, and Space and Missile Defense Command, as well as the HudsonAlpha Institute for Biotechnology.

**The Department of Atmospheric Science** has a rich tradition as a productive graduate academic research unit, recently ranked in the top ten by the Chronicle of Higher Education based on faculty research productivity index. It is co-located with the closely aligned Earth System Science Center, the National Weather Service and NASA in the National Space Science and Technology Center, thereby enabling students a unique collaborative experience. A cross-cutting theme of the Department is the development and application of remote sensing technology to Earth Science disciplines, including clouds, aerosols, land use/land cover change, environmental science, human-environment dynamics, climate, data assimilation, nowcasting, chemistry, air pollution, lightning, hurricanes, tornadoes and other severe weather (http://www.uah.edu/science/departments/atmospheric-science/research). These research activities frequently support NASA programs such as the SPoRT (Short-term Prediction Research and Transition) Center (http://weather.msfc.nasa.gov/sport), SERVIR (http://www.nasa.gov/mission_pages/servir/) that focus on applications of remote sensing, and the Global Hydrology Resource Center (https://ghrc.nsstc.nasa.gov/home/) that provides NASA Earth Science Data and associated tools and technologies for scientific, educational, commercial and governmental communities.

The graduate programs in the Department of Atmospheric Science provide excellent training in research/analysis and interdisciplinary education to students interested in issues related to the environment, strengthening their capability to conduct research leading to transition of observational and numerical modeling products to public policy and decision making (http://www.uah.edu/science/departments/atmospheric-science/ats-students). The undergraduate ESS degree in the Department is built upon a set of interdisciplinary core courses including the Earth's climate system, remote sensing, hydrology, public policy, and pollution problems. ESS students select from the following three specialty tracks: Atmospheric Science/Meteorology, GIS & Remote Sensing, and Human Dimensions/Societal Impacts (http://www.uah.edu/science/departments/earth-systems).

The SWIRLL operates significant facilities such as the ARMOR (fixed) and MAX (mobile) dual-polarized Doppler radars, MIPS – mobile profiling system, ozone and other lidars, GPS sounding station, radiosonde and ozonesonde stations, lightning mapping array, and electronics laboratories.
http://nsstc.uah.edu/ats/ats_swirll.html

*The University of Alabama in Huntsville is an affirmative action / equal opportunity employer of minorities / females / veterans / disabled*

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