

Computer Science - Hydrology and Hydroinformatics
Research - Professor
University of Alabama

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Posted Oct. 14, 2024, set to expire Sep. 20, 2025

Job Title	Computer Science - Hydrology and Hydroinformatics Research - Professor
Department	Computer Science https://cs.ua.edu/
Institution	University of Alabama Tuscaloosa, Alabama
Date Posted	Oct. 14, 2024
Application Deadline	Open until filled
Position Start Date	August 2025
Job Categories	Professor Endowed/Distinguished Professor
Academic Field(s)	Water Resources Engineering Computer Science
Job Website	https://careers.ua.edu/jobs/computer-science-hydrology-and-hydroinformatics-research-professor-525023-tuscaloosa-alabama-united-states
Apply Online Here	https://careers.ua.edu/jobs/computer-science-hydrology-and-hydroinformatics-research-professor-525023-tuscaloosa-alabama-united-states
Apply By Email	
Job Description	

The Department of Computer Science (CS) and the College of Engineering at The University of Alabama invite applications for multiple tenure-track faculty positions at all ranks, including Assistant,

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Associate, and Full Professor levels, rank in areas related specifically to water research. Applicants applying to this particular posting should be seeking to apply for a position at the rank of Professor.

Candidates with prestigious achievements in their field and exceptional national and international reputations will be eligible for consideration for significant endowment support through appointment as an Endowed Shelby Distinguished Professor (<https://provost.ua.edu/shelby-endowment/>).

The University of Alabama has positioned itself as an international leader in the broad spectrum of critical water challenges and issues facing society today and well into the future. UA is the home to a variety of organizations and units that focus on water-related research including the Alabama Water Institute, the National Water Center, the Global Water Security Center, and the NOAA Cooperative Institute on Research to Operations in Hydrology. While all of these water-related institutes and research centers engage faculty from across The University of Alabama, the UA College of Engineering and its departments and faculty play a central and pivotal role in virtually all aspects of this expansive water research enterprise. As a result, there are tremendous opportunities at The University of Alabama in its various engineering departments and programs for new and established faculty members to join our constantly growing efforts in this exciting, impactful, and critical area.

Of particular interest in this search are candidates with research interests in computer and data science, and particularly those with an emphasis in areas such as artificial intelligence and high performance computing, that can positively impact the expansive research work occurring across UA in hydrology and water resources engineering that is closely aligned with the Alabama Water Institute (AWI) and the Cooperative Institute for Research to Operations in Hydrology (CIROH) (<https://ciroh.ua.edu>). To best align with CIROH and its mission, candidates are sought who possess expertise in developing new computational approaches, edge computing techniques, and artificial intelligence applications that can positively impact water research at UA and who have experience working in cooperation with federal agencies (e.g., NOAA, USGS) and the private sector. Candidates who approach water research challenges from the perspective of advancing computer and data science research as it applies to the following two thematic topics are also strongly encouraged to apply: (1) large-scale hydrologic modeling, hydroinformatics, hydrologic information systems, artificial intelligence in hydrologic forecasting, water data science and analytics, remote sensing and water observing technologies, and applications of hydrologic forecasting in planning, design, and operations and/or (2) hydroinformatics, including advancement of geospatial data management, visualization, and analytics, web app tools, and open-source geospatial technologies for applied hydrology and water resources engineering applications.

The CS department and College consider teaching, research, and service as the three critical and

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complimentary portions of their overall mission. Candidates must demonstrate a clear potential to successfully develop, lead, mentor, and extramurally fund a highly productive research group with significant scholarly impact in a focus area with long term potential to further build upon the rapid rise and great success of the CS department and the College. An ability to collaborate with existing faculty in the key focus areas both within the CS department and the College, as well as potential colleagues across the campus, is also highly desirable. See <https://cs.ua.edu/> for more information.

The department, college and university are notable for the collegial, welcoming and supportive spirit we demonstrate to our students, faculty, and staff; thus candidates must demonstrate an ability to support this aspect of our community. The CS department and College also pride themselves on the outstanding educational experience provided to their students, and thus faculty candidates must demonstrate an ability to develop and teach courses at both the undergraduate and graduate levels in the faculty member's area(s) of expertise as well as to teach courses that support the delivery and accreditation of the CS department's core degree programs.

At the undergraduate level, the department offers Bachelor of Science degrees in Computer Science and Cyber Security, with undergraduate student enrollments in the department consistently being maintained at approximately 1000 students. The department also offers minors in computer science and computing technology and applications. At the graduate level, the department offers the Master of Science in Computer Science and the Doctor of Philosophy in Computer Science, and graduate enrollments in the department are currently on the order of 100 students and growing quickly as the research programs in the department continue to rapidly grow.

EEO/AA Policy

The University of Alabama is an Equal Employment/Equal Educational Opportunity Institution. All qualified applicants will receive consideration for employment without regard to race, color, religion, national origin, sex, sexual orientation, gender identity, gender expression, age, genetic information, disability or protected veteran status and will not be discriminated against because of their protected status. Applicants to and employees of this institution are protected under Federal law from discrimination on several bases. Follow the link below to find out more. "EEO is the Law"

<https://www.eeoc.gov/overview>

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Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

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