University of Connecticut

Assistant/Associate Professor of Hydro-meteorology and Hazards Assessment
Department of Civil & Environmental Engineering

The Civil and Environmental Engineering (CEE) Department at the University of Connecticut (UConn) invites applications for a tenure-track position to conduct teaching, research, and service in *Hydro-meteorology and Hazards Assessment* at the Assistant/Associate Professor level, with a joint appointment in Natural Resources and the Environment (NRE). UConn is a premier research institution – designated as a Research University/Very High research activity (RU/VH) by the Carnegie Foundation. CEE at UConn addresses global challenges through its didactic and research missions by preparing engineers to face major societal challenges and performing cutting-edge research to develop new solutions to global problems. We are one of the leading departments in the northeast with excellent educational and research programs and facilities. The department's active research activities include over $5.5 million in more than 40 active grants with $4.2 million in annual research expenditures generated from a wide variety of funding sources. These activities provide funding and superb training opportunities for our more than 100 graduate and 300 undergraduate students to conduct research, participate in laboratory internships, and pursue an excellent education. In fact, in 2010, the National Research Council reported that UConn civil engineering ranked in the top 10 percentile in student placement and UConn environmental engineering ranked in the top 10 percentile in diversity and in student outcomes.

We seek a faculty member in the area of hydro-meteorological extremes and hazards assessment with a focus on the development of methodological tools for forecasting the frequency and severity of high-impact weather events and associated hydro-meteorological hazards. The targeted faculty will *have an active research program in one or more of the following areas*: modeling and analysis of extreme hydro-meteorological events; risk assessment and reliability to storm and hydrogeological hazards (e.g., floods, landslides); evolution of hydro-meteorological hazards and exposure in a changing climate. Emphasis of the research will be on improving the predictability of weather and hydro-meteorological hazards through advanced modeling and observations and develop strategies to support risk management and emergency response. His/her research expertise *should be in one or more of the following areas*: hydrometeorology with emphasis on high-resolution atmospheric modeling and data assimilation, water resources engineering with emphasis on extreme hydrological events (e.g., flash floods, landslides) and climatic risk management with emphasis on assessing exposure and vulnerability to climatic extremes and hydro-meteorological hazards.

The new faculty will integrate with existing expertise in climate, hydrologic and environmental modeling as well as with new faculty in the cluster hire areas of human sustainability and infrastructure security

towards developing an excellence research team at UConn to address problems of societal resilience to catastrophic natural hazards and critical challenges of water security in Africa. The successful candidate will be expected to develop a vibrant externally-funded research program, pursuing a variety of traditional and non-traditional research funding sources; possess an enthusiasm for diverse and innovative teaching including distance learning courses at both the undergraduate and graduate levels; advise graduate and undergraduate students; generate a scholarly publication record; and participate in technical committees and outreach activities. The new faculty will collaborate with existing expertise in the Department of Civil and Environmental Engineering (climate variability and change, hydrologic remote sensing, hydrologic modeling, groundwater hydrology and modeling). He/she will make significant contributions to our on-going international education and research efforts that address critical challenges in water resources in Africa and in human sustainability and infrastructure security.

Minimum qualifications include: completion of all requirements for a Ph.D. in Civil Engineering or a closely related field with emphasis on hydrometeorology and/or hazard assessment by the time of appointment; the ability to develop and sustain a vibrant, nationally/internationally recognized and externally-funded research program; a documented record of quality teaching (Associate Professor) or demonstrated strong potential for teaching (Assistant Professor) in the undergraduate and graduate programs in their area of expertise or appropriate technical topics; and experience with (Associate Professor) or strong potential for (Assistant Professor) advising M.S. and Ph.D. students. Equivalent foreign degrees are acceptable.

Preferred qualifications include: a Professional Engineering license or the ability and intent to obtain one within two years; an undergraduate degree in civil or environmental engineering; professional experience in any area of hydrometeorology; a record of research complementing and enhancing existing departmental strengths in water resources and hydrology; a record of publications in related technical areas; a record of obtaining and managing contract research (Associate Professor); the potential for collaboration with industry; and the ability to contribute through research, teaching, and/or public engagement to the diversity and excellence of the learning experience.

This is a 9-month tenure track position with an anticipated start date of August 2013. The successful candidate's primary academic appointment will be at the Storrs campus with the possibility of work at UConn's regional campuses across the state. Please visit Husky Hire at www.jobs.uconn.edu to submit curriculum vitae, letter of application, a brief statement of teaching and research interests, and the names of at least three references (with email, phone number and mailing address). The required submission format is a single PDF file in the order shown above. Review of applications will begin immediately and continue until the position is filled. (Search#2013107). The University of Connecticut is an EEO/AA employer. We encourage applications from underrepresented groups, including minorities, women, and people with disabilities.