

POSITION:

Research Engineer
Institute for Coastal and Water Research (ICaWR)

RESPONSIBILITIES:

The Research Engineer will be expected to execute ICaWR mission in water resources research and co-develop and maintain a vigorous research program in collaboration with ICaWR research faculty. The research expertise of the Research Engineer must sufficiently align with those of the ICaWR mission on water resources research such that the Research Engineer has the abilities, skills, and knowledge to assist with the research program, including executing exiting research project, supervision of graduate students, technical management of scientific equipment, production of technical reports and presentations, and ensuring the completion of contract deliverables and work products.

The Research Engineer will also be expected to provide critical bridging support to ICaWR research faculty in conducting existing water resources research projects, development of research proposals, providing technical support in areas such as hydrologic and hydraulic modeling, flood prediction, flood forecasting, GIS analysis, conducting literature reviews and scientific editing of research proposals, as well as interfacing with the Office of Research and Sponsored Programs on behalf of ICaWR research faculty. The Research Engineer will also provide logistical support in the collection of field data as appropriate.

ENVIRONMENT:

ICaWR houses faculty of diverse expertise in the areas of coastal and water resources with the goal of addressing complex linkages between terrestrial and aquatic ecosystems in an ever-changing environment. The structure of ICaWR promotes multidisciplinary collaboration and we invite interested partners from across the country to interact with us. Research expertise in ICaWR encompasses such pressing environmental concerns as: global climate change and sea-level rise, restoration of coastal ecosystems, environmental modeling, water management, and sustainability of habitats and communities.

This position requires the physical ability to work in laboratory and field environments. This includes the ability to successfully assist in installing and handling flood monitoring sensors in riverine and coastal environments.

QUALIFICATIONS:

PhD in hydrology and water resources engineering, or related fields. Skills and research expertise are desired in areas such as hydrologic and hydraulic modeling, flood prediction, geo-spatial analysis, and applications of statistical methods in hydrology. Strong scientific programming skills and use of open-source tools are highly desired. The position requires a broad knowledge base in the areas of hydrologic and hydraulic modeling, land-surface modeling systems, spatio-temporal statistical methods, and GIS analysis. Experiences in the use of community-based models such as the WRF-Hydro system, the National Water Model, and other open-source modeling systems are highly desired. The applicant should show strong abilities in scientific programming using multiple platforms and open-source environments. The position also requires ability to publish scientific papers and participate in development of research proposals.

UNIVERSITY and COMMUNITY:

The mission of the University of Louisiana at Lafayette is to offer exceptional education informed by diverse world views striving to develop innovative leaders who advance knowledge. The Southern Association of Colleges and Schools Commission on Colleges accredits the University, which offers undergraduate and graduate degrees in the arts, sciences, and professional programs. The University is a public research university with high research activity, an enrollment of over 18,000 students and 800 faculty members. UL Lafayette is the largest of nine universities in the University of Louisiana System. The University offers degree programs in 55 undergraduate disciplines, 15 post-bachelor certificates, seven graduate certificates, the master's degree in 28 disciplines and the doctorate in 10 disciplines. Additional information about the University is available on the University's webpage at <http://louisiana.edu/>.

SALARY:

Commensurate with qualifications and experience.

APPLICATIONS:

The search committee will review applications starting immediately and continue until the position is filled. Candidates should send a letter of intent; curriculum vitae; and name, address and telephone number of at least four references. Additional materials, of the candidate's choice, may also be sent. Applications should be sent to: Research Engineer Position, Institute of Coastal and Water Research (ICaWR), 635 Cajundome Boulevard, Lafayette, LA 70506 or email to: sdenton@louisiana.edu.