



Tenure-Track Assistant Professor Position in Integrated Hydrologic Systems Modeling

Job no: 494393

Work type: Faculty

Location: Newark

To learn more and apply, visit: <https://careers.udel.edu/cw/en-us/job/494393/tenuretrack-assistant-professor-integrated-hydrologic-systems-modeling>

As part of an interdisciplinary cluster hire in coastal water sustainability, the University of Delaware (UD) invites applications for a 9-month, tenure-track faculty position at the rank of Assistant Professor in Integrated Hydrologic Systems Modeling beginning in fall 2020. Exceptional candidates at other levels will be considered.

Cluster Hires in Coastal Water Sustainability: The cluster hires will focus on hydrological processes, water quality, human behavior, remediation, and impacts on human and ecosystem health arising from stressors on coastal water resources. The cluster will complement existing strengths in water science, engineering, economics, and policy, and will establish critical new capabilities at UD in research and teaching, with six faculty hires: two each in environmental toxicology & epidemiology, water & soil remediation, and systems modeling. An interdisciplinary team of faculty from five UD colleges (CANR, CAS, CEOE, CHS and COE) developed the vision for this cluster, taking a systemic and solutions-oriented approach to global water challenges in coastal environments, and providing several possibilities for primary and joint appointments dependent on new hire expertise. Faculty hired as part of the cluster will be part of a high-potential interdisciplinary team, as well as important additions and complements to existing UD faculty and programs.

This Position: We seek exceptional candidates with expertise in integrated hydrologic systems. Candidates should have experience integrating computational and data sciences to enable innovation in developing and applying numerical models that simulate physical surface and subsurface processes across the hydrologic cycle and interactions with other Earth and human systems. A Ph.D. in applied mathematics, atmospheric sciences, computer science, engineering, geological sciences, geography, hydrology, oceanography or a related field is required. Successful candidates are expected to have demonstrated excellence in research and a dedicated interest in high quality teaching at both the undergraduate and graduate level. All faculty are expected to contribute to a welcoming campus environment that embraces diversity.

We seek an interdisciplinary researcher who is attentive to high-impact applications and cutting-edge technology and is committed to establishing robust, extramurally funded research programs. As a part of the cluster hire, the successful candidate will have opportunities to work on recently funded research related to water security. The position would make connections to

UD's current strengths in hydrology, coastal and environmental engineering, behavioral and environmental economics, environmental policy, and biogeochemistry. The hire will enhance new and existing degree programs in areas such as Water Science and Policy, Geological Sciences, Environmental Engineering, Geography, and/or Applied Economics and Statistics. To foster collaborations across academic units, we expect that most faculty hired through this search will have interdepartmental or intercollege joint appointments.

General Information: A research-intensive, technologically-advanced university with global impact, UD traces its roots back to 1743. Today, it is a Carnegie R1 Doctoral University (Highest research activity), with external funding exceeding \$200 million annually. State-assisted, yet privately governed, UD is a Land Grant, Sea Grant and Space Grant institution. This position has the potential to benefit from new campus-wide investments such as the Data Science Institute and state-of-the-art facilities that provide access to research equipment and training and technical support to meet comprehensive research needs in an interdisciplinary environment. The University's leadership is committed to greater collaboration among colleges and across disciplines, and recognizes that UD, as a place of intellectual transformation and enlightenment, must be a source for positive change, stimulating faculty, staff, students, alumni and others to make a difference in society. Recognized for the past seven years by the Chronicle of Higher Education as one of America's best universities to work for, the University of Delaware is located in scenic Newark, Delaware, within 2 hours of New York, Philadelphia, Baltimore, and Washington, D.C.

The University of Delaware recognizes and values the importance of diversity and inclusive excellence in supporting our academic mission and enriching the experience of our employees. We are committed to attracting candidates with varying identities and backgrounds, knowing that diversity enriches the academic experience and expands the knowledge base for innovation. We strongly encourage applications from scholars from under-represented groups. UD provides equal access to, and opportunity in, its programs, facilities, and employment without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or gender expression. The University is responsive to the needs of dual-career couples, and supports work-life balance through our family-friendly policies.

University of Delaware salaries and fringe benefit packages compare favorably with other universities in general and land grant universities in particular. Tenure-track professors receive a one-semester sabbatical leave in the third year. A competitive start-up package will be available. *Applicant Instructions:* Applicants should apply on-line and should submit a letter of application, a curriculum vitae, a description of research plans, and a statement of teaching philosophy. They should also provide the names and contact information for at least three references. Review of applications will begin on November 15, 2019 and will continue until the position is filled. Questions should be directed to Dr. Holly Michael (hmichael@udel.edu) or Dr. Dan Leathers (leathers@udel.edu).

Applications close: Open until filled