



**Associate/Full Professor and Assistant Professor of Environmental Toxicology
The University of Delaware
Newark, Delaware**

As part of an interdisciplinary cluster hire in coastal water sustainability, the University of Delaware (UD) invites applications for two tenured/tenure-track positions in Environmental Toxicology at the Associate/Full Professor and Assistant Professor levels. The cluster hire will focus on water quality, hydrological processes, human behavior, remediation, and impacts on human and ecosystem health arising from increased 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.

At this time, we are seeking exceptional candidates in Environmental Toxicology at the Associate/Full Professor and Assistant Professor levels with interdisciplinary interests, who will develop extramurally funded research programs examining how organisms and ecosystems are affected by natural and/or anthropogenic toxicants in the environment. These positions would significantly connect the study of the environment to human and ecosystem health. A PhD in a related field is required and post-doctoral training or independent research experience is preferred. Senior faculty applicants must have an established record of scholarship and research funding. All faculty are expected to contribute to a welcoming campus environment that embraces diversity.

We seek interdisciplinary researchers who are attentive to both high-impact applications and cutting-edge technology and are committed to establishing robust research programs. The hires will enhance new and existing degree programs in Epidemiology, Environmental Engineering, Geological Sciences, Plant and Soil Sciences, and Medical and Molecular Sciences. To foster collaborations across academic units, we expect that most faculty hired through this search will have interdepartmental joint appointments.

The hires' research could link the use of environmental exposure science, which connects environmental science with the fields of environmental toxicology and epidemiology, using biomedical approaches to examine the adverse health effects of toxicants on individual organisms and populations. Research could involve exposure assessment, bioinformatics, genomics, ecological risk assessment, and computational or epidemiological analyses linked to coastal water quality indicators. The new hires could bring expertise in the design of retrospective and prospective studies and the analysis of large data sets.

Hires with geoscience backgrounds could pursue research in environmental chemistry or geochemistry studying trace contaminants and isotopes in air, water, soil, and especially those in groundwater and surface water in fresh and saline environments. Research could encompass exposure assessment and ecological risk assessment, which could include applications of geospatial techniques in development of numerical models. In turn, these models could link transport of trace contaminants throughout hydrologic systems in the urban-rural-coastal landscape with environmental exposures to the ecosystem and to human populations. This work could help to predict future impacts of anthropogenic influences and environmental change (particularly sea-level rise and climate warming) on coastal aquatic ecosystems and human populations.

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. Investments in state of the art facilities, such as the Advanced Materials Characterization Lab, the Keck Electron Microscopy Center, the new National Institute for Innovation in Manufacturing Biopharmaceuticals (NIIMBL), and the Data Science Initiative provide access to research equipment and comprehensive training and technical support to meet the 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.

Delaware actively participates in the NIH Institutional Development Award (IDeA) program (COBRE, INBRE, & CTR), which builds research capacity for basic, clinical, and translational research; faculty development; and infrastructure improvements. The University of Delaware is a founding member of the Delaware Health Sciences Alliance (DHSA), in collaboration that engages in partnerships to establish innovative collaborations across medical education and practice; health economics and policy; and population sciences, public health, and biomedical sciences and engineering. Partners across these initiatives include several academic and health care institutions.

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.

Applicant Instructions:

Applicants should apply at <http://apply.interfolio.com/56252>, and should submit a letter of application, a curriculum vitae, description of research plans, and statement of teaching philosophy. They should also provide the names and contact information for at least three references. Candidates will be notified before references are contacted. Review of applications will begin on November 1, 2018 and will continue until positions are filled. Questions should be directed to Dr. Don Sparks (dlsparks@udel.edu) or Dr. Holly Michael (hmichael@udel.edu).

Equal Employment Opportunity

The University of Delaware is an Equal Opportunity Employer which encourages applications from minority group members, women, individuals with a disability and veterans. The University's Notice of Non-Discrimination can be found at <http://www.udel.edu/aboutus/legalnotices.html>. Employment offers will be conditioned upon successful completion of a criminal background check. A conviction will not necessarily exclude you from employment.