



# University of New Hampshire

## Postdoctoral Diversity and Innovation Scholars

### Postdoctoral Scholar in Innovative Environmental Pollution Controls

#### College of Engineering and Physical Sciences (CEPS)

**Department:** Civil and Environmental Engineering

The Department of Civil and Environmental Engineering (CEE) seeks a Postdoctoral Scholar in the broad field of **Innovative Environmental Pollution Controls** as part of the strategic initiatives in Healthy, Sustainable, and Resilient Communities. The Postdoctoral Scholar will collaborate with and be mentored by current faculty in the ABET-accredited Environmental Engineering program to (1) pursue independent research in areas of environmental engineering complimentary to the department, (2) engage in workshops on scholarly writing, teaching, and learning, and research initiative development, participate in monthly cohort meetings, and (3) participate in department activities including governance and undergraduate education. We seek candidates who can enhance diversity in our undergraduate and graduate programs through research and teaching and can work in a team environment in one or more of the following emphasis areas:

**Emerging Contaminants** to address pressing research needs in the characterization of emerging and legacy contaminants in engineered and natural systems, including drinking water, surface water, groundwater, soils, and/or residuals. The focus could be the identification, understanding, and modeling the transformation, fate, capture, and mitigation of these contaminants (Pharmaceutical and Personal Care Products (PPCPs) and Per- and Polyfluoroalkyl substances (PFAS) within or at the interface of engineered-natural systems.

**Equitable Water Solutions** to support the pressing need to deliver safe drinking water through novel and unbiased technologies, decision-making tools, and projections (quantity, economic) with the consideration of social justice, environmental sustainability, and system resilience. The focus could be advanced technologies or materials for water treatment, disinfection, or reuse; water distribution, transportation, and storage; the safety and resilience of water supply; innovative water supply schemes, including point-of-use and point-of-entry systems; inequalities in the allocation of water resources, or equitable watershed management and planning.

**Water Reuse and Resource Recovery** to address pressing research needs on advanced technologies for the treatment, reuse, or recovery of water, nutrients, or energy resources from wastewater.

Faculty within CEE work collaboratively with other UNH units in the areas of water, climate change, environmental genomics, and sustainability including Earth Sciences, Ocean Engineering, Institute for the Study of Earth Oceans and Space, Natural Resources, Hubbard Center for Genomic Studies, Paul College, the UNH SMSOE, The Carsey School, and the NH EPSCoR Program. CEE faculty will serve as mentors for acquiring and managing funding through the NSF, EPA, DOE, NHDOT, NHDES, NHHHS, NOAA, and private foundations. The Postdoctoral Scholar would bring much needed skills relevant to current funding



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opportunities and find a rich research environment for her/his/their success by joining in these collaborations.

The University of New Hampshire actively promotes a dynamic learning environment in which qualified individuals of differing perspectives, life experiences, and cultural backgrounds pursue academic goals with mutual respect and shared inquiry. We encourage applications from underrepresented groups.

[All 2023 position descriptions](#)

[Postdoctoral Diversity and Innovation Scholars website](#)

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