



University of New Hampshire

Postdoctoral Diversity and Innovation Scholars

Postdoctoral Scholar in Resilient and Sustainable Infrastructure under Changing Climate

College of Engineering and Physical Sciences

Department: Civil and Environmental Engineering

The Department of Civil and Environmental Engineering (CEE) seeks to fill a Postdoctoral Diversity and Innovation Scholar position in conducting research that fosters infrastructure and community sustainability and resiliency. The ideal candidate will apply interdisciplinary infrastructure systems modeling, data science, and social and behavioral sciences approaches in tackling the problems related to climate resilience, infrastructure systems/regional planning, cold region engineering, environmental sustainability, and social justice, with considerations of the dynamics within and across the built and natural systems. The successful candidate will work within the CEE department collaborating with researchers in multiple departments, the School of Marine Science and Ocean Engineering, the Sustainability Institute, and the University Center of Infrastructure Resilience to Climate (UCIRC).

Through a partnership with the Sustainability Institute, the Scholar will have the opportunity to work with a community of researchers, teachers, students, and practitioners across campus and community engaged networks in the state and region. UNH is home to the oldest endowed, university-wide sustainability program in US higher education, established in 1997 through a generous gift by a visionary UNH alum. Today UNH enjoys national (and international) leadership in higher education in the field of sustainability, a result of over two decades of work by many faculty, staff, and students.

In addition, UNH faculty and students have led state-of-the-art research on the areas of coastal and cold region infrastructure. This includes marine structural systems, renewable and sustainable energy systems, transportation infrastructure design, Arctic infrastructure resilience, engineering of cold regions, community climate resilience, social equity and justice and infrastructure management and adaptation to climate change. These efforts have been in partnership with local communities and national and international agencies.

A PhD in Civil, Environmental, Industrial, or Sustainable Engineering, Data Science, or a related discipline is required by the time of appointment. Experience with working on interdisciplinary projects or working with interdisciplinary teams is required.

The scholar will collaborate with and be mentored by a group of faculty members working in the resiliency and sustainability area. The candidate will have opportunities to co-advise graduate and undergraduate students in support of their own independent research portfolio, publish papers as corresponding or co-corresponding author, submit and manage research grants as principle or co-co-principal investigator, and develop a teaching portfolio consistent with their expertise and interests (the expectation being one course annually).



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Additional professional development support will be provided in the form of annual professional development funds, as well as participation in faculty development academies with other early career tenure-track faculty, coaching by senior faculty colleagues, monthly cohort meetings, workshops on teaching and learning, involvement in department activities, and support funds. Further college and university wide professional development workshops and academies, targeted at early career scientists and faculty, are also available.

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. The Department offers B.S., M.S., and Ph.D. degrees and currently has 19 research and teaching faculty, approximately 300 undergraduate majors, and 90 graduate students. UNH (University of New Hampshire) is a land-, sea-, and space-grant university and serves as the flagship public research institution of New Hampshire. UNH, located in the vibrant seacoast area of the state, has easy access to both Boston and the White Mountains.

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Office of Engagement and Faculty Development
University of New Hampshire • Thompson Hall Durham, NH 03824
Leslie Couse, Executive Director: Leslie.Couse@UNH.edu 603-862-5505