About the Sustainability Fellows Program:
UNH Sustainability Fellowships pair exceptional students from across the U.S. with municipal, educational, corporate, and non-profit partners in New England to work on transformative sustainability initiatives each summer. Sustainability Fellows undertake challenging projects that are designed to create an immediate impact, offer a quality learning experience, and foster meaningful collaboration. Fellows work on-site with their mentors at partner organizations during the summer, supported by a network of Fellows, partners, alumni, and the UNH Team. Graduate students, exceptional undergraduate students, and recent graduates from any accredited college or university are eligible to apply.

A detailed description of one Fellowship follows. To learn more about the other Fellowships offered this year, and for application instructions, see: www.sustainableunh.unh.edu/sustainability-fellows.

About the Host Organization:
Durham is a small town in seacoast NH with a population of approximately 16,523, and is home to the University of New Hampshire. The citizens of Durham have a long history of voicing their support for sustainability initiatives including land conservation, renewable energy, public transportation, protection of natural ecosystems, and efforts to foster a diverse and welcoming community. Durham's Master Plan documents the Town's dedication to reducing emissions and enhancing resiliency in the face of climate change. Buttressing this vision, recent progress includes substantial renewable energy installations, implementation of strong building codes and guidelines, comprehensive management of fresh water supplies and wastewater treatment, protection of undeveloped lands by the Town, and working with UNH on comprehensive climate action planning. The 2020 Sustainability Fellowship project continues that collaboration, advancing the Town and University toward their climate action goals.

About the Fellowship:
During the summer of 2019, the Town of Durham engaged a UNH Sustainability Fellow to create a climate resilience assessment for the Town, designed to dovetail with resilience planning on the UNH campus, a major economic driver for the community. The resulting report evaluates the Town's strengths and vulnerabilities in light of future climate scenarios, and offers recommendations for future climate action. The foremost recommendation of the 2019 resilience assessment was for the Town of Durham to
conduct a GHG inventory to quantify the Town's emissions, and thereby inform the process of prioritizing GHG reduction strategies.

Based on this recommendation, the Town of Durham will engage a Sustainability Fellow in 2020 to conduct a municipal GHG inventory. To continue the close collaboration between the Town and UNH around climate action planning, this analysis will be conducted using SIMAP, the Sustainability Indicator Management & Analysis Platform. SIMAP, developed at UNH, is an online tool designed to calculate, track, and manage both carbon and nitrogen footprints. UNH, and hundreds of campuses across the country utilize SIMAP not only to evaluate their GHG emissions, but also to assess environmental impacts related to nitrogen pollution. In 2018, a UNH Sustainability Fellow working with the City of Dover, NH utilized SIMAP to calculate the first-ever combined municipal carbon and nitrogen footprints. Durham’s 2020 Sustainability Fellow will employ a similar model to calculate carbon and nitrogen footprints for the Town of Durham, to establish a baseline for reducing the Town's emissions.

The Fellow will also collaborate closely with another Fellow who will focus on an environmental assessment for the Oyster River School District, which includes Durham and neighboring communities Lee and Madbury.

Outcomes:
The primary deliverable for this project is a report detailing the carbon and nitrogen footprints associated with municipal operations in Durham. As time allows, the Fellow will also create a plan for conducting a community-wide inventory as a follow-on project.

Impact:
The Fellow will have the opportunity to complete a municipal GHG inventory for a modestly sized NH community, in collaboration with University partners. The Fellow will gain an understanding of how local governments operate, and specifically, how they seek to become more sustainable, despite the lack of dedicated sustainability staff.

The carbon and nitrogen footprint reports generated as a result of this project will serve as a baseline for future climate action by the Town. Only with an understanding of the actual emissions sources in the community can the Town develop and prioritize strategies for reducing those emissions. Collaboration with the University and the school district on this effort will facilitate more coordinated local climate planning into the future, and can serve as a model for other college towns throughout New England.

Desired Qualifications:
- An academic background in Environmental/Earth Sciences, Chemistry, Mathematics, Engineering, Environmental Policy, Sustainability, or related fields of study.
- Familiarity with basic GHG accounting concepts and, ideally, previous experience in calculating carbon footprints.
- Excellent written and oral communication skills, and data management and organizational skills; ability to work independently and to collaborate effectively; comfortable engaging with stakeholders.
• Advanced Excel skills.
• Interest in public administration, urban planning, community development, energy efficiency and renewable energy, food systems, landscape planning, and related areas.
• **Special Requirement:** This position has potential for extension after the summer on a part-time basis. As such, it is limited to UNH students who will be enrolled during the 2019-20 academic year and are available to continue work ~15 hours per week through May 2019.

**Work Location:** Town Hall, Town of Durham, 8 Newmarket Road, Durham, NH 03824

**Mentors:** Todd Selig, Administrator, Town of Durham, NH; Dr. Cameron Wake, Professor, and Jennifer Andrews, Project Director, UNH Sustainability Institute.

**Compensation:** $6500
(taxable and distributed on a two-week payroll cycle over the course of the fellowship)

**Expectations:**
Fellows are expected to be primarily dedicated to their assigned projects throughout the summer, and also participate in a variety of networking activities, professional development opportunities, and presentations coordinated by UNHSI. Specifically, Fellows are expected to:

• Attend a mandatory orientation at UNH prior to the start of the fellowship term, **May 26-28, 2020.** (Travel scholarships may be available for students traveling from outside New England.)
• Work full-time on-site at the partner organization, **June 1 - August 14, 2020**
• Complete 400 hours of work, including work at host site as well as UNHSI activities, between May 26 – August 14, 2020.
• Complete a fellowship project according to the work plan (with adjustments as necessary).
• Participate in weekly webinars or advisory group meetings.
• Present work at mid-term and final poster sessions at UNH on **July 10** and **August 7.** (Travel support available.)
• Engage in additional professional development, networking, and advisory activities as offered.
• Provide and receive feedback at the end of the fellowship.

**Apply by February 10** at [www.sustainableunh.unh.edu/sustainability-fellows](http://www.sustainableunh.unh.edu/sustainability-fellows).

**Questions** may be addressed to [megan.carney@unh.edu](mailto:megan.carney@unh.edu).