



The Sustainability
Institute

**Sustainability Fellowship
Analyzing the Business Case for New Greenhouse Gas
Reduction Strategies at the University of New Hampshire –
Durham, NH**

The University of New Hampshire (UNH) has a history of leadership in managing its energy and carbon “footprints.” UNH’s climate action plan, WildCAP, adopted in 2009, targets a goal of a 50% reduction in its total greenhouse gas emissions by 2020, below a 2001 baseline. The University’s last greenhouse gas inventory demonstrated a reduction of xx%, and the UNH Energy Task Force, which is charged with stewarding implementation of WildCAP, is evaluating opportunities and strategies for “closing the gap” between the current footprint and the 50% reduction over the next four years.

To that end, the UNH Energy Task Force is seeks a Sustainability Fellow to work with the ETF Executive Committee in identifying the most promising opportunities for the short- and medium-term carbon reductions. For example, the Fellow will examine possibilities for new energy efficiency projects across campus; also, s/he will evaluate the significant number of campus building spaces that do not currently get their heat from the campus cogeneration plant, and identify those that would be the best candidates—based on cost, function, and structural elements—for a potential switch to alternative energy sources such as solar thermal, geothermal, biomass or biofuel. As part of this process, the Fellow might also assist the ETF by analyzing the return on investment of previous or potential new UNH energy projects, and look at relevant energy projects being undertaken by other universities with similar constraints, needs and assets.

The final deliverable will be a report that inventories ghg reduction project opportunities, estimated life-cycle costs and “first costs,” estimated greenhouse gas reductions, implementation considerations, possible co-benefits, outstanding questions, and next steps. The report might also analyze the costs and benefits of different “portfolios” of greenhouse gas reduction project investments at UNH over varied time frames.

This is a multi-disciplinary project that involves building and energy systems, alternative energy technologies, master planning, public administration, and economic analysis. The chosen Fellow will gain a thorough and nuanced understanding of the practical challenges and opportunities in campus energy and greenhouse gas management—and will play a key role in helping UNH reduce its contribution to climate change.

Location: Durham, NH

Time commitment: 40 hours per week, June 6-August 19, 2016

Compensation: \$6000 stipend

Desired Qualifications:

- Enrollment in an undergraduate or graduate degree program: mechanical engineering, energy management, urban planning, business or a related field
- Familiarity with building energy systems and alternative energy technologies
- Experience and proficiency with life-cycle cost accounting
- Proficiency with data management, and experience in quantitative analysis
- Exceptional communication skills
- Creativity, attention to detail, and a high level of initiative

UNHSI Sustainability program eligibility:

Graduate students, exceptional undergraduate students, and recent graduates are eligible. We will encourage, but not require, an academic sponsor or reference for each fellow, and where possible we will ask that course credits are awarded.

Supervision, Training, Mentoring and Evaluation

This fellow will receive supervision from UNH Energy Manager Adam Kohler as well as mentoring and professional development offerings from UNHSI.

Fellows will be expected to participate in three MANDATORY events:

- A three-day, two-night orientation in Durham, NH, June 1-3rd. Lodging and food are provided; Fellows are responsible for any associated travel costs.
- Midterm project presentations to UNHSI staff, faculty and relevant project partners (can be done remotely).
- A summative evaluation and feedback session at the end of their placement.

Apply by February 23rd at <https://www.sustainableunh.unh.edu/sustainability-fellows>