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Clean Air-Cool Planet (CA-CP) is inviting applications for our competitive Climate Fellowship program. CA-CP is an action-oriented environmental nonprofit that works with campuses and communities to find and promote solutions to climate change. We provide practical solutions that demonstrate the economic opportunities and environmental benefits of climate leadership. CA-CP's Climate Fellowships pair outstanding students with challenging, important projects that will propel the US toward a low-carbon future. CA-CP Climate Fellows undertake challenging projects, receive supervision, mentorship, unique networking opportunities, and a stipend.

The Project:

**Vulnerability Mapping in the Winooski Watershed to Protect Urban Agriculture**

Communities throughout New England are increasingly experiencing the unwelcome impacts of floods caused by extreme weather events and altered precipitation patterns. In Vermont's Winooski watershed, 2011 was a year of significant impacts on residents and business-owners. Record flooding in the Burlington Intervale--900 acres along the Winooski River's banks—was especially devastating to the many farms located there, which in turn severely impacted locals' access to fresh local food and meant the loss of hundreds of thousands in revenue to these small businesses. This fellowship project, involving a partnership between the City of Burlington's Community and Economic Development and Planning & Zoning/GIS/IT departments; The Intervale Center; Vermont's Agency of Natural Resources; University of Vermont--Spatial Analysis Lab; and UVM Extension/Center for Sustainable Agriculture, will involve the development of recommendations to help municipal staff, business-owners and other decision-makers in the Winooski watershed prepare for and adapt to the impacts of climate change. The project may serve as a model for other communities seeking cost-effective, proactive strategies for inland flooding caused by changing precipitation patterns and extreme weather events.

Project Goal and Desired Outcomes:

The project will involve inventorying and mapping hazards (e.g., fuel tanks, manure pits, etc.) in the Winooski River watershed that could adversely impact urban agriculture (food production, temporary and permanent structures, etc.) in Burlington's Intervale. Specifically, the Fellow will:

- Conduct a literature review – searching for relevant research models
- Assess & summarize impacts of 2011 floods (interview farmers, catalogue damages, etc)
- Review existing FEMA regulations
- Locate potential hazards within watershed using aerial image analysis, field work
- Create GIS map and written report of findings
- Coordinate with partners (Intervale Center, University of Vermont/Extension, Vermont Agency of Natural Resources)
- Estimate economic impact of flood events (if time),
- Suggest potential mitigation strategies

The primary project output will be a “white paper” authored by the Fellow that summarizes the highlights of the literature review, impact assessment, GIS mapping and recommendations.

At the conclusion of the project, this fellow will have gained:

- A working knowledge of an important emerging area of community planning
- A portfolio including maps, graphs and other data analysis work, and a white paper
- Project management and presentation experience
- Relationships with a variety of institutional partners working at the cutting edge of local climate change adaptation
- Experience working independently
- Engagement with CA-CP's climate fellow alumni network

Location: City Hall, Burlington, VT

Time commitment: Full time, 10 weeks (between May and August)

Compensation: \$5000 stipend

Desired Qualifications:

1. Upperclass status in a B.S./B.A. Degree Program, or enrollment in M.S./M.A. Program.
2. Academic background and/or experience in geography and/or urban agriculture/urban planning and sustainability; current knowledge of climate change science strongly preferred.
3. GIS/mapping/aerial image interpretation skills.
4. Ability and previous success working independently.
5. Excellent organizational ability, phone and e-mail skills, dedication to following through with individual tasks required.
6. Experience working with a non-profit organization or local government preferred.

CA-CP Climate Fellowship 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. In order to attract the highest-quality applicants and to enable students to take advantage of these opportunities regardless of their financial situation, CA-CP will award all selected fellows a competitive stipend.

Supervision, Training and Mentoring

This fellow will receive hands on supervision and mentoring from the staff of the City of Burlington's Sustainability Action Team and Community and Economic Development Office, input and mentorship from an advisory committee made up of representatives from the project partner organizations, and regular contact with CA-CP's staff as well.

Fellows in each session will be expected to participate in an orientation session and final reception in Portsmouth, NH, as well midterm project presentations to CA-CP staff and relevant project partners (in person or by phone/webinar), and a summative evaluation and feedback session at the end of their placement. These workshops and other post-fellowship communication mechanisms ensure that CA-CP Climate Fellows will belong to a network of passionate students and professionals, and will be able to collaborate and continue learning after the project's end.

To apply, please submit a letter of interest, resume, and writing sample addressed to Lynn Sullivan by February 24 at [lsullivan@cleanair-coolplanet.org](mailto:lsullivan@cleanair-coolplanet.org).