



## Carbon Sequestration Program Intern Job Description (1/8/2021)

**Organization:** [Bedford 2030](#) is a 501(c)3 that addresses the urgent issue of climate change through the reduction of greenhouse gas emissions and preservation of natural resources. Since 2010, through partnerships, programs, and events we have inspired, advocated, communicated, convened and connected with our community, in Bedford and beyond, to drive behavior change. A recent report shows that, with Bedford 2020 leading the way, our community successfully reduced greenhouse gas emissions by 44% (as compared to 2004 baseline data).

Bedford 2030 has just set an aggressive new 10-year climate action goal to reduce community wide greenhouse gas emissions 80% by 2030 and created an updated Climate Action Plan.

The development of community programming around Carbon Sequestration as a climate solution is a strategic priority for Bedford 2030. Over the next 6 months, Bedford 2030 is embarking on critical foundational steps to develop community knowledge, initiate engagement and create pilot programming around this new science/climate solution including: completion of a land use inventory; evaluation and prioritization of carbon capture opportunities in our community; activation of citizen scientist activities; formulation of pilot ideas; and development of a metrics plan to track impact.

**Carbon Sequestration Program Intern:** Part-time position (February - June) working 10-20 hours/week. Start date early February.

**Role:** The Carbon Sequestration Program Intern will compile baseline data on the Town of Bedford's land assets, conduct research on best practices for measuring and increasing capacity for carbon sequestration in plants and soil, including and not limited to regenerative agriculture methodologies, and assist in community engagement strategies.

**Principal Responsibilities:** Working closely with the program co-leaders and Bedford 2030's Program Manager and Community Engagement Manager, the Carbon Sequestration Program Intern will:

Support the development of a GIS land use inventory in the Town of Bedford

- Develop and verify baseline land assets
- Determine potential of land assets to sequester carbon
- Research carbon sequestration calculation methodology and carbon multipliers
- Determine highest impact areas for programming

Conduct research into carbon sequestration in plants and soils, including:

- Literature review for carbon sequestration capabilities of land assets (including soil carbon capture)
- Identify and verify carbon multipliers for land assets
- Landscape analysis of assets and soil carbon accounting
- Explore, evaluate, and determine relevance to Bedford 2030's strategic goals of soil carbon sequestration

Develop metrics plan

- Determine metrics for measuring impact
- Develop database to track land assets, verifications, and changes

Assist in assessing and developing pilot program opportunities

- With Program Manager:
  - Explore methods to increase carbon capture in land assets
  - Research national models for carbon sequestration programming
  - Recommend and outline pilot opportunities

Support community engagement and citizen science activities

- With Community Engagement Manager:
  - Determine which carbon sequestration solutions work for Bedford 2030 community members to lend support as citizen scientists
  - Develop program and process for citizen scientists to verify land use inventory
  - Manage citizen scientist verification program
  - Research and create partnership opportunities

**Education:** Bachelor's degree, or currently enrolled in a degree program in environmental science.

**Qualifications/Competencies:**

- Course work and/or working knowledge of GIS
- Able to synthesize data and communicate findings in easy-to-understand format
- Knowledge/understanding of the role plants and soils play in carbon sequestration
- Experience with ecological/environmental assessment in the field and in the office
- Organization and management of volunteers acting as citizen scientists

**Personal Skills/Attributes:**

- Self-starter with a high energy level, a strong work ethic and the proven ability to multitask and to manage and drive a project forward
- Organized and excellent communication skills
- Enjoy field work
- Team player and collaborator who works comfortably with people at all levels of government, business, the not-for-profit world and the general community.

**Location:** Bedford 2030 office is located in Katonah, in the Town of Bedford, NY. This position allows for flexibility in remote work, though periodic, and mostly outside, work in Bedford will be expected.

**Compensation:** Hourly wage commensurate with experience.

**To Apply:** Qualified parties please submit a resume and a statement of interest in the position by email attachment (with your name in the document titles) to Erin Glocke (Bedford 2030 Community Engagement Manager) at [erin.glocke@bedford2030.org](mailto:erin.glocke@bedford2030.org) by Friday January 22, 2021.