

POSITION ANNOUNCEMENT:

GEORGE MELENDEZ WRIGHT INITIATIVE FOR YOUNG LEADERS IN CLIMATE CHANGE

The National Park Service (NPS) is pleased to announce the *George Melendez Wright Initiative for Young Leaders in Climate Change* Initiative (YLCC) to provide a pathway for exemplary students in higher education (graduate students and advanced undergraduate students) to apply their skills and ideas to park-based challenges and solutions. The Initiative offers 12-week paid internships which allow students to gain valuable work experience, explore career options, and develop leadership skills through mentorship and guidance while helping to advance the NPS response to climate change. Successful students may be eligible for non-competitive hire into federal positions for which they qualify following completion of all academic requirements.

The Rehabilitation of a Historic Structure as a Model for Resilient Design

Gateway National Recreation Area
Staten Island, NY

Fort Hancock and Sandy Hook Proving Ground National Historic Landmark District was devastated by Hurricane Sandy. The majority of the historic buildings were damaged by flood waters. While recovery from Hurricane Sandy is underway, many of these buildings remain vacant and the viability of their rehabilitation in the face of climate change and sea level rise remains in question. To quell some fears and assist in the development of a proactive approach to climate change, Gateway NRA is proposing to plan, design and rehabilitate one of the historic structures along Officer's Row using new and green technologies and improved storm preparedness designs.

The idea for this project was developed during the recent Sandy Hook Climate Change Adaptation Workshop. The "Model House" was one of the seven proposed projects developed at that workshop. As proposed the project will assist the park and the volunteer team to begin planning for the Model House. The purpose of the project is to proactively demonstrate resilience to inevitable future storms and to demonstrate techniques for reducing institutional and personal carbon footprint all the while meeting the Secretary of Interior Standards for The Treatment of Historic Properties.

During the initial planning phase of the project, research into green technologies, the resiliency of historic and new materials to be incorporated into the design as well as details of elements such as historic windows which might double as one way storm vents will be developed. Working with the park's historic architect, and facilities and project management specialists as well as external experts in the field of sustainable design, material conservation and green technology, the intern will be embedded into the park's planning and design team for the project. The intern's responsibility will be to investigate research and advise the team on available technologies and recommend approaches for sustainable and resilient aspects of the project. We anticipate that the information developed will be used for this project as well as other ongoing and potential projects in the park and will provide the intern an opportunity to advise the park for these other projects.

During the planning, design and final construction phase, this project will be used as an educational and outreach tool, and generally show how green technologies can be integrated into the rehabilitation of historic structures.

PROJECT DESCRIPTION

We anticipate that this intern will be the lead on the climate change and sustainability aspects of the rehabilitation of the Model House and will advise the park's team on what the options are available and how to implement them. Specific tasks will include the following:

- Research sustainable climate change adaptation and storm preparedness materials, details and options;
- Develop and recommend strategies for how to incorporate these elements into the rehabilitation of a historic structure;
- Develop details for specific elements of the sustainable design. These may include aspects such as solar panels, foundation/ basement storm drainage vents, landscaping etc.

Specific products and deliverables will include:

- Presentations to the park's project planning and Senior Management Teams [power point presentation];
- The development of design guidelines for historic buildings and climate change adaptation options;
- Develop a portfolio of green technologies.

QUALIFICATIONS

We are looking for individuals who have experience with climate change as it relates to architectural modifications and historic structures. The following qualifications are desirable:

- Degree and/or course work in Sustainable Design;
- Degree and/or course work in Architecture;
- Knowledge of green technologies;
- Leed Certification is desirable;
- Knowledge of climate change adaption strategies and options;
- Certificate in Historic Preservation is desirable but not required;
- Knowledge of the Secretary of Interior Standards

LEADERSHIP DEVELOPMENT

Gateway NRA would like an intern who can lead the research component of this project and serve as an advisor to the park project team. Park staff specifically the proposed supervisor, historical architect and Chief of Cultural Resources at Gateway NRA, will work with the intern to develop a work plan, will meet the intern on a regular basis to advise and evaluate their progress, discuss ideas, and will provide an opportunity to work with and learn from other professional staff members as well as park partners who

are interested in this project. Working together the intern and the supervisor will vet ideas and develop solutions to the complex issues and details. The supervisor will assist the intern to develop research and presentation materials and skills required. A self-starter who is able to work independently once a direction and plan are developed would be desirable. Upon completion we would expect the intern to have developed the skills to lead a project team.

DATES OF POSITION

Planning for this project is in the early stages. We would like an intern to begin in Mid-May to early June and complete the internship 12 weeks later. The dates are flexible but to integrate the intern into the project during the planning phase an earlier rather than later start date would be desirable. At this time we do not anticipate funding will be available for an extension.

COMPENSATION

This initiative supports one student at \$14 / hour for 12 weeks, or 480 hours.

HOUSING

Park shared housing can be provided. The housing will be located within Fort Wadsworth, the park headquarters site, or at our Miller Field site located on Staten Island approximately 5 miles from the office. Shared housing includes a private room with shared bath and cooking facilities.

WORK ENVIRONMENT

The internship will be completed in an office environment. Field trips to the project site to investigate existing conditions will be completed with park staff. Field trips to look at similar projects and installations are anticipated and will be completed with the project team. Gateway NRA will provide an office space for the intern as well as a computer and network access.

CONTACT INFORMATION

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