



# SCIENTISTS IN PARKS

## PROJECT DESCRIPTION SUMMER 2021

<b>NPS UNIT: MONOCACY NATIONAL BATTLEFIELD</b>	<b>PD #: 2021065</b>
<p><b>Project Title:</b> GIS Assistant  <b>Primary natural resource discipline:</b> Biological Sciences  <b>Project keywords:</b> GIS, metadata, ArcCollector, Avenza, ArcGIS Online, ArcStoryMap, data management  <b>Location:</b> Frederick, Maryland</p>	
<b>COVID-19 NOTICE</b>	
<p>As the COVID-19 pandemic continues to change and evolve, project timelines and structure remain flexible and it may be necessary to postpone start dates, begin work remotely, or reformulate the project’s description. Should any development in the COVID-19 outbreak impair a project’s timeline or results, the SIP Team will work with the park and project mentors to assess the situation and determine the best course of action at that time.</p>	
<b>PROJECT DESCRIPTION AND WORK PRODUCTS</b>	
<p><b>Position Description:</b> Monocacy National Battlefield preserves 1,647 acres of forested areas, agricultural fields, meadows, and waterways that make up its six historic farmsteads. The park lies three miles south of the city of Frederick – the second largest city in Maryland – and has approximately two miles of the Monocacy River running through it. The park is home to fifty-two historic structures, several archeological sites, over five-hundred species of vascular plants, one-hundred species of birds, and almost eighty species of mammals, reptiles, amphibians, and fish. The park relies on decades of collected geospatial data and GIS mapping in all facets of park management, however the GIS program is in need of updating and attention.</p> <p>The GIS Assistant intern will perform field surveying and GPS data collection, prepare GIS maps for all park divisions, standardize data organization and organize existing data, and update metadata. The intern will also assist in the park’s transition to a park wide ArcGIS Online group. This group will be used to collect data via ArcCollector and share data between park personnel and divisions.</p> <p>Maps created by the intern will be used on the park’s website, park brochures, and in planning documents.</p> <p>The intern will also create a Monocacy National Battlefield ArcGIS StoryMap. The interactive StoryMap will allow visitors from all over the world to remotely explore the battle, as well as significant cultural and natural features on the historic landscape.</p> <p>The National Park Service (NPS) preserves unimpaired the natural and cultural resources and values of the National Park System for the enjoyment, education, and inspiration of this and future generations. Many recent advances in technology, including enhance mapping and data collection, web-based tools, and services which allow for the sharing of knowledge with our NPS partners and the public, are making it easier and more efficient to meet our NPS mission. While the park collects and retains extensive GIS and spatial data, the organization, management, and modernization of these data are lacking due to shortages in staffing. The GIS Assistant intern’s management and creation of data will help the park to learn more about its resources and how to better manage and preserve them in an increasingly modernized digital era. Data and maps created will also be used to create additional educational materials for the public to further explore and understand the battlefield and its resources.</p>	

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This position is offered through the National Park Service's Scientists in Parks (SIP) Program in partnership with Stewards Individual Placement Program (Stewards) and The Geological Society of America (GSA).

**Work Products:** At the completion of this internship, the intern will have organized and created an abundant amount of park data. The intern will also have created new park trail layers and maps for future brochures, and an ArcGIS StoryMap.

#### **QUALIFICATIONS**

Strong organizational skills; thorough work products; knowledge and experience in ArcGIS/ArcGIS Online; upper level undergraduate or graduate student with at least 9-12 credit hours of GIS.

The applicant must be a U.S. citizen or U.S. permanent legal resident ("green-card-holder") between the ages of 18 and 30 years old, inclusive, or veterans up to age 35. Prior to starting this position, a government security background clearance will be required.

#### **VEHICLE AND DRIVER LICENSE REQUIREMENTS**

**Applicant must have a valid drivers license and a good driving record.**

**A personal vehicle is RECOMMENDED but not required for this position.**

If the SIP is required to drive a park vehicle for their position, Stewards will perform a driving records search, and the SIP's ability to drive a park vehicle during work hours will be contingent upon the results. SIPs will have to have had their license for 3 years or be over the age of 21 to be insured as drivers under Stewards insurance policy. Examples of things that will preclude a SIP from driving a park vehicle include: SIP under the age of 21 years old that has been licensed less than three years, DUIs, multiple moving vehicle violations, suspended or revoked license, or three or more accidents (regardless of fault) in the last 3 years. If the driver's search is favorable, Stewards will provide driver's liability insurance while the intern is driving a NPS vehicle for their SIP position. If the SIP is denied coverage by Stewards, they will not be permitted to drive during work hours.

#### **HOUSING**

**Park housing is NOT available. The intern will be responsible for finding housing in the nearby area.** If available, the intern will have a private room in a three bedroom co-ed house with shared sitting area and kitchen. Kitchen is supplied with dishes/pans. Interns will need to bring all personal items including toiletries, laundry detergent, pillows, and linens. Housing has cable and wifi. If park housing is not available, a higher living stipend will be provided.

**NATURAL AND PHYSICAL WORK ENVIRONMENT**

Physical/Natural Environment: Monocacy National Battlefield is a 1,647 acre park located in Frederick, Maryland, approximately 40 miles North of Washington, DC. The park is composed of farmland, forest, and grasslands, and is adjacent to the city of Frederick. Summers in Maryland are hot and humid, winters are very cold.  
Work Environment: Work will be heavily office base. When collected data in the field, intern may be spending considerable time standing and hiking. Intern may be subject to full sun, high heat, biting and stinging insects, and the potential for dehydration during field work.

**INTERNSHIP DATES**

**Start Date:** 5/17/2021  
**Number of Weeks:** 12 Weeks  
**Flexible Start Date:** Yes

**LIVING ALLOWANCE**

12 Weeks (\$525/week = \$6300)

**RELOCATION ALLOWANCE**

\$350

**AMERICORPS PROGRAM**



AmeriCorps is a program that engages individuals in intensive community service work with the goal of “helping others and meeting critical needs in the community”. The SIP Program is supported through AmeriCorps by providing a Segal Education Award in addition to the SIP’s living stipend and relocation allowance.

Upon successful completion of the SIP position, the SIPs (AmeriCorps members) are eligible for a \$1,638 - \$6,195 pre-tax education award that can be used for paying back student loans or for continuing their education. The amount of the education award is based on the length of the position.

AmeriCorps limits the number of terms an individual can serve to 4 terms. If an applicant has previously completed 4 SIP or other AmeriCorps positions, they will not be eligible to apply for an additional SIP position.

**SUPERVISORS/MENTORS**

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