Internship
Summer 2017

On-line Recreational Map for Moosalamoo National Recreation Area

This internship is in memory of Professor Bob Churchill, the founder and director of the GIS program at Middlebury College, who trained more than 900 students in different aspects of GIS and cartography. Many of these students are now leaders in the field.

Overview

Vermont's Moosalamoo National Recreation Area is a 15,857 acre treasure in the heart of the Green Mountain National Forest. More than 70 miles of well-maintained trails — from rugged cliffs to gentle slops — provide the home to hiking, biking, wildlife and bird watching, cross country skiing, snowshoeing, and more. The region stretches from the western slopes of the Green Mountains to Lake Dunmore and from Scenic Vermont Route 125 south to Route 73. In the gateway villages of Brandon, Middlebury, and Rochester you will find accommodations, restaurants, artisan shops, museums, and a wide variety of activities.

The Moosalamoo Association is a nonprofit organization that brings together specialists in tourism and conservation to learn from each other and to develop a framework for cooperative activities for natural resource conservation, recreation experience enhancement, and educational and interpretive services for the visitors to the Moosalamoo National Recreation Area.

The goal of this project is to update the existing Moosalamoo on-line map and to create associated mobile field apps (IOS and Android). The intern will work with the Moosalamoo Association to identify updates to the map and then to create a new on-line version of the map using Mapbox. The on-line recreation map and associated mobile apps will work together so that visitors and tourists will be able to identify suitable hiking and biking trails, swimming, skiing, and boating opportunities as well as navigate in the field using mobile devices. A secondary goal is to make the map so it will be suitable for hard-copy printing.

More information on the Moosalamoo Association and the Recreation Area can be found at: http://moosalamoo.org/

Go to http://moosalamoo.org/map/ to see the existing recreation map for the area.

Specifically, the intern will:

- Work with Moosalamoo Association to update trails and other features.
- Collect field data where needed using GPS and photo interpretation

- Combine all collected data to create a comprehensive data set
- Revise existing written descriptions for trails as necessary.
- Learn the Mapbox platform and use it to create an on-line map for the recreation area. This may require several drafts.
- As time allows, develop IOS and Android mobile apps and test them in the field.
- Document the data and process and provide the compiled data and maps to the Moosalamoo Association.

Qualifications

Completion of Geography 120 (Fundamentals of GIS).
Completion of Geography 325 (Cartographic Design) desirable but not required.
Some experience using Adobe Illustrator desirable but not required.
Must be able to work independently and as a team member.
Must have an interest in learning more about cartography and recreational mapping.
Some experience with HTML, Java Script, and Python desirable but not required.

The intern will have access to the Middlebury College Geography Department computer labs and Bill Hegman, the Middlebury College Geography Department GIS Specialist, will provide the primary technical support during the summer. Moosalamoo Association will provide guidance on map design and feedback on the final drafts and design.

Duration and Dates

The intern will be expected to be available 30 hours/week for 8 weeks. Starting and ending dates are flexible but generally go from early June to Mid August.

Compensation

A stipend of $3000 is available. Some funds for travel/mileage reimbursement are also available.

Deadline for Application

Please submit a cover letter and resume by March 24th to:

Bill Hegman, GIS Specialist
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Middlebury College
(802) 443-5016
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