Maine Geological Survey Coastal Marine Geology Intern 2019

Expected Intern Contributions:
The 2019 Intern will aid the Marine Geology Division of the Maine Geological Survey in the Department of Agriculture, Conservation and Forestry with field and office efforts. The Intern will support: 1) preparation for the Maine Beaches Conference and Beaches report; 2) field work for the Maine Beach Monitoring Program (MBMAP) and State of Maine Beach Profiling Program (SMBPP); 3) field work for tidal and nearshore mapping programs along Maine beaches; 4) field work for living shoreline projects in Casco Bay; and 5) other MGS project efforts. The prospective Intern must be in a physical condition to spend several days per week in the field (along beaches, dunes, bluffs, and salt marsh areas). Field work will be concentrated in York, Cumberland, and Sagadahoc Counties, but may include other counties. The prospective intern must be capable of walking several miles and spending long periods of time in the field carrying survey equipment, driving an MGS truck, and learning how to operate field equipment, including Real Time Kinematic GPS (RTK GPS) and the MGS Nearshore Survey System (NSS). The intern may be conducting field work alone at times, but will often be working with MGS’ Marine Geologists. The Intern will also process and analyze field data, including Light Detection and Ranging (LIDAR) data. The Intern will also aid MGS with a variety of data-development related efforts in support of ongoing resiliency efforts, including several different NOAA-funded projects.

Experience and Knowledge Gained:
The prospective Intern will gain experience and knowledge regarding MGS programs and work efforts, learn various coastal geologic field mapping, survey data processing and analysis techniques, and will become proficient in using a variety of different field equipment and software for field and office efforts, including:

- In-depth knowledge of Maine’s beaches, their natural geology and anthropogenic features;
- Surveying techniques using a network Real Time Kinematic Global Position System (RTKGPS) and data processing
- Water-based survey techniques using the Nearshore Survey System (NSS), a PWC-based survey platform
- Displaying and analyzing GPS, beach profile, and other survey data within ArcGIS
- LiDAR data processing, analysis, and interpretation
- Knowledge of tidal elevation data and analysis using NOAA VDATUM software
- Living shoreline project design, construction and monitoring
- Working as part of a large, multi-agency project team
- Data analysis and presentation using Microsoft Excel, Word, and PowerPoint, etc.

Minimum Requirements:
The prospective Intern will have the following minimum requirements:

- Completed college with a major in geology, GIS, or closely related earth-sciences discipline
- Experience using ArcGIS software
- A valid driver’s license free of violations

Duration and compensation:
We expect an extended, maximum **24-week (6 month)** internship with somewhat flexible start (typically in early to mid-May) and end dates. The intern will receive, based on qualifications, a range of $12-$13/hour for a 40-hour week. Any field or work-related expenses will be reimbursed by the Maine Geological Survey. **Please note that there are no relocation expenses, health insurance, vacation, or state retirement benefits associated with this position.**

Application:
A cover letter describing relevant experience, a resume, and contact information for at least one reference, and your available start and end dates must be received by 5 pm on April 5, 2019 – digital application materials are preferred and encouraged. We will notify the prospective intern by April 12, 2019.

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