Muskie School of Public Service &
Portland Water District
Student Opportunity!

The Portland Water District (PWD) is looking to hire an undergraduate or graduate USM student to work part time on a remote sensing and GIS project to map the Sebago Lake watershed in Maine. This work will involve updating a GIS-based watershed analysis that has been completed every 4 to 5 years over the past 17+ years. The student will work closely with a faculty mentor and PWD and receive clear direction for the project and work.

This provides a great opportunity for a student to get hands-on training in remote sensing analysis and GIS skills with Dr. Vinton Valentine or Dr. Firooza Pavri, work with individuals involved in environmental monitoring at the Portland Water District on a part time basis (up to 20 hours a week) between July – Dec 2024, and gain some special skill-sets that will position you well for an environmental or GIS/remote sensing related career in the future.

Students may also have the option of enrolling for **Internship credits** while completing this project.

Responsibilities

- Update a remote sensing/GIS analysis of land cover change across the Sebago Lake watershed
- Collaborate with faculty mentor and PWD personnel to successfully complete the project
- Assist in writing a summary report of the analysis and procedure used to complete the analyses
- Assist with finalizing a digital copy of the data and analysis in ArcGIS-compatible format

Qualifications

- Enrolled in a USM degree or certificate program
- Coursework or previous background in remote sensing and/or GIS
- Familiarity with ArcGIS or QGIS and ESA SNAP or other imaging software
- Interest in environmental/ecosystem monitoring, GIS/remote sensing, or related field
- Strong research and writing skills, with attention to detail

Position Details

- Hours per week: up to 20 hrs/week at $18/hour
- Timeframe for project: July - Dec 2024
- Location: Portland Water District office and USM campus. Remote/hybrid work is possible

Applications

To apply, submit a cover letter and updated resume to vinton.valentine@maine.edu and firooza.pavri@maine.edu Cover letter should address why you would like to participate in this opportunity and detail any experience with remote sensing and GIS.

Applications are due by ~~June 14, 2024~~; extended to June 28, 2024.