

Advanced Diploma in GIS Applications Practicum Opportunity Summary

Project	Title:	2023 Beaufort Watershed Stewards		
	Organisation:	Beaufort Watershed Stewards (https://beaufortwater.org/)		
	Location:	Qualicum Beach to Courtenay, Vancouver Island		
Sponsor	Name:	Mark Lake	Title:	Volunteer, Aquifer Mapping
	Email:	lakem@shaw.ca	Phone:	(250) 871 6834
Project Overview	<p>The Beaufort Watershed Stewards work to promote the health and resilience of local watersheds in the Beaufort Range and to ensure the quality and quantity of fresh water for the future. BWS, a volunteer group, was formed in 2016 with an initial plan to monitor a few streams in the Fanny Bay Area on Vancouver Island.</p> <p>By 2021 BWS's surface water and groundwater proprietary data gathering activities had expanded to the following:</p> <ul style="list-style-type: none"> • Stream Monitoring -Turbidity / Dissolved Oxygen/ Temperature / Conductivity /pH (more than 10 creeks) • Stream Flow Monitoring (more than 5 creeks) • Watershed Health Assessments • Water Level Well Heights • Aquifer Mapping – Resistivity Project <p>In 2022 Jake LeBreton (VIU Practicum student) helped BWS in becoming ArcGIS users. The 2023 project is a follow-up to his work. Jake's recommendations for future work is attached.</p>			
Task Summary	<ol style="list-style-type: none"> 1) Electronic stream sampling data entry into ArcGIS 2) Time Lapse deforestation video of the Beaufort Range using NDVI 3) LiDAR investigation as to public data availability for the Beaufort Range 4) Perform the groundwork for a 2-D printable large scale Google Earth image of the east side of the Beaufort watersheds 5) Update Webmaps on BWS website. 			
Additional Information	There will be opportunities to work with technical (forestry, geophysicist, engineers etc) volunteers at BWS, as well as Earth Scientists.			
Funding	<input type="checkbox"/> None <input checked="" type="checkbox"/> Minor (< \$3,000) <input type="checkbox"/> Major (>\$3,000) BWS is prepared contribute up to \$1,500 towards funding for this project			
Workplace	<input type="checkbox"/> Off-site <input type="checkbox"/> Full-Time On-Site <input checked="" type="checkbox"/> Other/Mixture Description (if Other): Occasional free accomodation can be provided in the Royston area so that Practicum Student can work one on one with BWS volunteers.			
Student Selection	<input type="checkbox"/> Faculty Selection (Student with highest grades selected from among those interested) <input checked="" type="checkbox"/> Shared Selection (Faculty and Sponsor make selection based on discussion of interested students) <input type="checkbox"/> Sponsor Competition (Sponsor interviews, in-person or via telephone, and selects from interested students)			

For assistance or further information, please contact:

*David Cake
(250) 740-6153
Dave.Cake@viu.ca*