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| VIU acronym_and text | | **Advanced Diploma in GIS Applications**  **Practicum Opportunity Summary** | | |
| Project | Title: | Hydrogeological and environmental data management for Google Earth Pro | | |
|  | Organisation: | Western Water Associates Ltd | | |
|  | Location: | Victoria, Vernon, Prince George | | |
| Sponsor | Name: |  | Title: | Geoscientist & GIS Analyst |
|  | Email: |  | Phone: |  |
| Project Overview | Western Water Associates Ltd. is a consulting company based in BC with specialty hydrogeology and environmental science, with offices based in Victoria, Vernon, and Prince George. GWELLS is a vector dataset comprised of >100,000 well points distributed throughout BC. We are interested in developing a framework to convert well to KML or KMZ to view in Google Earth Pro. A challenge with Google Earth Pro is that is not very efficient at displaying data over a large geographic area. Preference is to develop the approach to automate data conversion using Python programming or other open source software such as Graphical Modeler in QGIS™, because the Province frequently updates this dataset. The student would then summarize the approach in a brief report with analysis, results and maps. | | | |
| Task Summary  (Types of work involved) | -Locating, exploring, and manipulating large spatial datasets  -Python programming  -Open source GIS  -Reporting, analysis and cartography | | | |
| Additional Information  (Appealing Aspects) | -Experience working for a environmental consulting company  -Experience working in an hybrid office-based environment  -Exposure to a variety of consulting projects (hydrogeology, biology, GIS)  -Opportunity to network with other industry professionals | | | |
| Funding | None  Minor (< $3,000)  Major (>$3,000) $3,000 funding | | | |
| Workplace | Off-site  Full-Time On-Site  Other/Mixture  Description (if Other):  We antipicate the practicum student would primarily work remotely, but there is office space in Victoria if a hybrid work schedule is agreed upon. | | | |
| Student Selection | Faculty Selection (Student with highest grades selected from among those interested)  Shared Selection (Faculty and Sponsor make selection based on discussion of interested students)  Sponsor Competition (Sponsor interviews, in-person or via telephone, and selects from interested students) | | | |

*For assistance or further information, please contact: David Cake*

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