|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| VIU acronym_and text | | **Advanced Diploma in GIS Applications**  **Practicum Opportunity Summary** | | |
| Project | Title: | Clean Energy and Economic Development web map application development | | |
| Organisation: | Barkley Project Group | | |
| Location: | Nanaimo | | |
| Sponsor | Name: |  | Title: | GIS Advisor |
| Email: |  | Phone: |  |
| Project Overview | Barkley Project Group is a Nanaimo-based organization which provides the technical capacity required for development of community-owned sustainable energy and infrastructure. We manage all the services required to bring renewable energy and community infrastructure projects to life. Services where GIS plays a critical role range from business planning, renewable energy resource assessments, feasibility and regulatory permitting all the way through to construction and operations management.  Barkley has a number of web applications which were developed using ArcGIS Web AppBuilder, and with ESRI retiring this product, there is a need to modernize these web applications. What the new version would look like is TBD, and the student can have some freedom in shaping a solution. See further discussion at:  <https://resources.esri.ca/webinars/making-the-next-move-strategies-for-migrating-from-arcgis-web-appbuilder#main-content>  An internal business application is a likely candidate for the initial migration, and depending upon progress there are many other web map applications specific to a variety of clean energy and infrastructure projects that can be worked on. The idea is to put these web map apps in the hands of the project teams so they have easy up-to-date access to relevant project mapping information ranging from design, land status, environmental sensitivities, etc. Generally, Barkley has been trying to move from the use of static PDF maps to web maps so the student could potentially help with creating more awareness of our web maps, GIS capabilities etc. | | | |
| Task Summary  (Types of work involved) | Upgrade of existing web mapping application(s) used to support the advancement of Clean Energy and Economic initiatives   * Investigate potential migration options, e.g., ArcGIS Experience Builder, ArcGIS Instant Apps, ArcGIS Dashboards, ArcGIS StoryMaps * Migrate existing web apps from Web AppBuilder * Configure web maps in the new web map viewer * Organize layers * Customize / configure widgets and tools etc. * Improve user experience (more user friendly) * Integration of publicly available data sources (e.g. compilation of land interests for whole of BC, using information from the Integrated Land and Resource Registry). * Development and advancement of a company wide GIS platform / increase awareness company wide of the use of web maps for “non GIS” users * Development of instruction manual(s) | | | |
| Additional Information  (Appealing Aspects) | Depending on timing and migration progress, there may the opportunity to help out with other GIS projects related to geothermal, hydropower, solar and wind energy | | | |
| Funding | None  Minor (< $3,000)  Major (>$3,000) | | | |
| Workplace | Off-site  Full-Time On-Site  Other/Mixture  Description (if Other): | | | |
| 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) | | | |