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| VIU acronym_and text | | **Advanced Diploma in GIS Applications**  **Practicum Opportunity Summary** | | |
| Project | Title: | GIS practicum to support marine spatial planning at DFO | | |
|  | Organisation: | Fisheries and Oceans Canada, Science branch, Marine Spatial Ecology and Analysis (MSEA) section | | |
|  | Location: | Nanaimo, BC | | |
| Sponsor | Name: | Click here to enter text. | Title: | Senior Biologist; Aquatic Biologist |
|  | Email: | Click here to enter text. | Phone: | Click here to enter text. |
| Project Overview | The Marine Spatial Ecology and Analysis (MSEA) section within Fisheries and Oceans Canada conducts ecological research, develops innovative tools, and performs spatial analyses to provide science advice related to marine management and policy development. We work collaboratively with a particular focus on marine spatial planning, marine protected area network design and monitoring, oil spill response, and climate change adaptation.  The student practicum will be coordinated by the marine spatial planning (MSP) program within MSEA. Some potential projects are described below and will include a broad range of tasks and skills, including investigating data sources, compiling datasets, performing spatial analyses, generating maps and metadata, and helping with data publication. | | | |
| Task Summary  (Types of work involved) | Potential projects/tasks:   * Compile spatial data and design maps to detail ecological features and human activities for overview reports on the potential conservation areas along the BC coast * Develop maps and statistics to highlight the results of spatial optimization analyses for a technical report on a pilot project on decision support tools for MSP * Investigate data sources for eelgrass surveys along the west coast of Vancouver Island and provide updates and QA/QC for an existing coastwide eelgrass geodatabase * Provide GIS support for habitat delineation using UAV imagery and supervised classification * Support the publication of spatial data to the Open Government portal | | | |
| Additional Information  (Appealing Aspects) | * Opportunity to be part of the important contributions that GIS makes within DFO’s Science branch and work on projects relevant to BC’s marine environment * Experience working independently and collaborating with DFO GIS analysts and biologists * Salary available and based on federal student rates of pay * Security clearance required | | | |
| Funding | None  Minor (< $3,000)  Major (>$3,000) | | | |
| Workplace | Off-site  Full-Time On-Site  Other/Mixture  Description (if Other):  Location: Pacific Biological Station, Nanaimo. Part-time remote work is also an option. | | | |
| 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) | | | |

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