



SPATIAL ANALYST / DATA SCIENTIST

CUMULATIVE EFFECTS AND CLIMATE CHANGE IN SALMON WATERSHEDS

THE LAB

The [Salmon Watersheds Lab](#) (SWL) at Simon Fraser University (SFU) studies aquatic ecology in collaboration with diverse partners to inform management and conservation, with a focus on salmon and their watersheds. Our group is a part of the [Earth to Ocean Research Group](#).

THE PROJECT

The Salmon Watersheds Lab is seeking a motivated assistant to a spatial analyst to support research on cumulative effects and climate change in salmon watersheds. The ideal candidate will have expertise in working with large spatial/temporal datasets, including processing and analyzing satellite and climate data. Candidate should have GIS/RS experience within the platforms of Google Earth Engine and ArcGIS or QGIS. This role may also support the [Watershed Futures Initiative](#) focusing on the cumulative effects of human activities on salmon. Ideal candidates will be self motivated, organized, and have good teamwork and communication skills. **This work can be done remotely but if possible will include in-person training.** There is flexibility in contract and job title, e.g. Postdoctoral Fellow or Contractor.

EXPERIENCE AND QUALIFICATIONS

- A Masters or Postdoctorate degree (or equivalent) in a natural sciences discipline;
- Experience managing large datasets;
- Coding in Python, Java, and R;
- Experience/knowledge of web based visualizations;
- Statistical analyses are an asset;
- Ability to work independently;
- Being part of a collaborative team and working with diverse peoples.

FUNDING AND TIMELINE

Ideally, the **start date** for this position will be **late July or early August, 2023, for minimum 1 year with an option for extension.** This project has funding for 2 years (until March 31st, 2025). Salary for this position is ~ \$80,000/yr, commensurate based on experience, 35 hours per week.

TO APPLY

Applicants should email a CV and a brief cover letter to adminjwm@sfu.ca with the subject: "Spatial Analyst Application—WFI" and your name, to apply. **Applications will close 5 pm PST on July 21st, 2022.** Please note that only applicants proceeding to interviews will be contacted regarding the outcome of their application.

In addition, please note:

- Your CV (PDF) should reference relevant work and educational experience and contact information for three (3) references;
- Your cover letter (PDF) should be two (2) pages or less and should address:
 - Relevant scientific experience and skills;
 - Why you are interested in the project.



Credit: Julian Gan.



Credit: Emma C.



Credit: Fernando Lessa.