

Postdoctoral Researcher – Boreal Riverine-Coastal Biogeochemistry

The Ecosystem Indicators Team of the Ocean Frontiers Institute at Memorial and Dalhousie University, in collaboration with Department of Fisheries and Oceans and the Nunatsiavut Government, is seeking a highly motivated postdoctoral researcher with a strong background in biogeochemistry to join an interdisciplinary research initiative aimed at (1) uncovering the processes and interactions supporting coastal ecosystems of Newfoundland and Labrador and (2) developing indicators for responses of these ecosystems to climate change.

Research efforts will primarily focus on understanding how climatic changes along the land-sea continuum will impact the chemistry and primary productivity within coastal ecosystems. Specifically, the candidate will design studies to investigate how changes in the chemical composition and isotopic signatures of dissolved and particulate organic matter will impact primary productivity and nutrient cycling across geographically and climatically different watersheds.

Location

The position will be based at Memorial University, located in beautiful, historic [St. John's, Newfoundland](https://www.newfoundlandlabrador.com/top-destinations/st-johns) (<https://www.newfoundlandlabrador.com/top-destinations/st-johns>) in eastern Canada, and has a student population of ~18,000. Field sites will encompass rivers and their downstream estuaries within southern and eastern Newfoundland and northern Labrador.

Minimum Qualifications

Candidates must have a PhD or be obtaining one by March 31, 2019 from an accredited college or university in earth or environmental sciences, oceanography, or similar program.

Preferred qualifications

- Ph.D. in biogeosciences or related field such aquatic biogeochemistry, aquatic microbial ecology, or chemical oceanography
- Experience performing organic matter extractions and spectrometric and biomarkers analyses.
- Experience collecting and isolating dissolved or particulate organic matter
- Experience and willingness to work in diverse and potentially remote field settings.
- Strong written and oral communication skills with significant motivation to publish in the peer reviewed literature.
- Strong interest in team-based interdisciplinary science, with the willingness and ability to work independently when required.
- Demonstrated ability to handle and analyze diverse types of datasets using contemporary scripting languages such as R, MATLAB, and/or Python.
- Willing and able to be involved in outdoor work in rugged environments.

Project supervisors. Drs. [Susan Ziegler](#), Canada Research Chair in Boreal Biogeochemistry and [Rachel Sipler](#), Canada Research Chair in Marine Biogeochemistry,

Application details. To apply please send CV, including contacts for at least three references and letter describing your background and suitability for this research program to Rachel Sipler (resipler@mun.ca) and Susan Ziegler (sziegler@mun.ca). Position is fully funded for 30 months with some potential opportunity for extension and the preferred start date between November 1, 2018 to March 31, 2019.