

We have a fully-funded postdoctoral position for up to 2 years in integrative coastal ecosystems.

The due date for applications is Dec. 15, 2020 {or until filled}

**Post-Doctoral Research Position in Integrated Coastal Ecology
Memorial University of Newfoundland, Canada**

Postdoc description and duties:

We are a team of researchers at Memorial University of Newfoundland and Dalhousie University seeking to recruit a postdoctoral fellow in the area of integrated coastal ecology to develop a quantitative framework for linking physical, chemical and biological processes at the freshwater-marine interface.

The position will be funded by a recent OFI project entitled “Ecosystem Indicators for Changing Oceans” (<https://oceanfrontierinstitute.com/research/ecosystem-indicators>) which aims to develop understanding of coastal ecosystems in Newfoundland and Labrador (with a focus on Nunatsiavut).

Research context:

Researchers increasingly recognize the importance of connections between freshwater and marine systems. Despite its harsh climate, the dynamic Northwest Atlantic has supported productive ecosystems and human coastal communities in Atlantic Canada for centuries. Even so, the ecosystem has undergone marked shifts over time. How can we detect or even forecast such changes, potentially mitigating their ecological and societal impacts? The successful postdoc will use local case studies to develop the intellectual framework required to link freshwater and marine ecosystem components, their interconnectivity, and the processes that control their dynamics.

Specifically, the successful candidate will take advantage of diverse datasets to develop tools to advance ecological understanding of coasts. The postdoc will take a leadership role in (1) the creation of an empirical framework to connect biogeochemical and biodiversity data, and (2) the integration of the resulting framework with existing datasets. We will also encourage and support the postdoc in taking intellectual leadership and mentoring graduate students where appropriate.

Qualifications:

- A Ph.D. in quantitative geography/spatial data analysis, statistics, quantitative ecology, biogeochemistry, marine ecology or oceanography;
- Demonstrated aptitude for integrative thinking;
- Publication record that illustrates an ability to conduct novel, independent research;
- Considerable experience processing, manipulating, and analyzing datasets with previous experience conducting analyses such as structural equation or network modelling considered an asset;
- Demonstrated proficiency with R (or related programming languages) and with software tools for data visualization;

- Interest in or experience in working with Indigenous governments and local communities;
- Excellent time management skills, including the ability to meet project goals in a timely manner and follow projects through to completion, and meticulous work style, as evidenced by previous research;
- Strong interpersonal and communication skills, including the ability to work both independently and collaboratively, and to communicate research findings at professional meetings and in high-quality peer-reviewed journals.

Research Environment:

The postdoc will be hosted in the lab of Dr. Amanda Bates at the Ocean Sciences Center, Memorial University (<https://www.mun.ca/osc/>), in close collaboration with Drs. Paul Snelgrove, Suzanne Dufour, Rachel Sipler, and Sue Ziegler (from Memorial University), and with Drs. Suzanne Budge and Eric Oliver (from Dalhousie University). We offer a supportive and stimulating research environment that encourages a family friendly, flexible work environment.

Appointment:

The postdoc position is initially for one year, renewable for another year based on performance. The start date is flexible, but would ideally be no later than March 2021.

To apply:

Candidates should submit the following materials via email to Dr. Bates (abates@mun.ca) in a single PDF document, with the file name “BatesLabPostdocApplication_YourLastName” your last name in the file name and the email subject heading “Bates Lab postdoc application” by Nov. 30, 2020.

- A cover letter briefly explaining your motivation for applying for this position, how your prior research experience qualifies you for the position, and how you satisfy the required and desirable qualifications;
- A CV, including publication list (which may include publications in advanced stages of preparation that will be likely in the review process by the above postdoctoral fellowship deadline date) and names and contact details for three references;

Individual qualifications and background, academic excellence, and collegiality will be the primary criteria in selecting the successful candidate.

We strongly encourage applications from STEM-underrepresented minorities.
