



Post-doctoral position: Synthesis of the Biological Carbon Pump

A Postdoctoral position within the large interdisciplinary and international *Transforming Climate Change* (TCA) project is available at the Ocean Science Centre of Memorial University of Newfoundland, Canada.

TCA (<https://www.ofi.ca/programs/transform-climate-action>) is a seven year, \$397 million collaboration among Dalhousie University, Laval University, University Québec at Rimouski, and Memorial University. The largest research theme within Transforming Climate Action is Reducing Uncertainties in Carbon Cycling in the Northwest Atlantic Seas (Uncertain Seas). The goal of Uncertain Seas is to better constrain the role of the ocean in the Earth's climate system by reducing uncertainties with physical and biogeochemical processes that control the global ocean carbon cycle, particularly the carbon pumps.

We are currently searching for a Post-doctoral fellow interested in synthesizing different data streams focusing on the functioning of the Biological Carbon Pump (BCP). Understanding, in a quantifiable sense, the BCP is a prerequisite for predicting the changing oceanic role in the global carbon cycle and its impact for climate change. Additionally, it is necessary for quantifying the effects of climate manipulations and determining the achieved carbon credits. Internationally, several projects have focused on the functioning of the BCP in the past years, and it is time to pull together some of the data and insights gained. The primary focus of this position is to generate a synthesis, e.g. using a global perspective targeting regional differences; or evaluating the respective roles of the different pumps; or integrating different data streams to improve input to models; or integrating field data with remotely sensed data.

Success requires demonstrated skills in synthesizing data, including advanced data analysis skills, as well as an understanding of the bio-chemical and physical process that drive the pump. The successful candidate will have a proven track record of writing peer-reviewed publications on questions pertaining to the BCP. The ability to work independently as well as in an international team with diverse groups of scientists is also essential. Applicants should have a PhD or equivalent.

The Transforming Climate Action project provides ample opportunities for extensive networking and professional development. There will be possibilities to participate in various TCA workshops and trainings with graduate students, postdocs and other early career scientists; for research visits to collaborating labs and for conference travel. The position includes a travel budget to foster collaborations and networking. There may be opportunities for field work on oceanographic research vessels. The postdoctoral researcher also has access to professional development resources that MUN offers, such as the Lab2Market program, and the Memorial Center for Entrepreneurship. The successful candidate will find a supportive, diverse environment within Ocean Sciences, their work location. The Ocean Science Centre is right at the ocean, in Logy Bay, a spectacular location.

This is a two-year position with a tentative **starting date of 1 April 2026** and a strong possibility of a one-year extension. The primary mentor is Dr. Uta Passow, in collaboration with other project PIs including Drs. Tyler Eddy and Maxime Geoffroy, both at the Marine Institute, Memorial University of Newfoundland. The successful candidate will also work with international researchers involved in the TCA project to bridge disciplines.

Newfoundland is an incredible place to live and St. John's is a safe, friendly city with great historic charm, vibrant cultural life, and easy access to a wide range of outdoor activities.

Start date: 1 April 2026

Salary: \$70 K/year plus benefits for 2 years with opportunity for an extension

Priority consideration will be given to applications arriving before 16th February 2026, but later applications will be considered until the position is filled.

To apply please submit:

- 1-2-page statement describing your suitability for this position
- A Curriculum Vitae
- Three reference letters – please ask that the file name of the letters include your name

Applications and reference letters can be email directly to Uta Passow at uta.passow@mun.ca

U. Passow, Dr. rer. nat. habil.

Canada Research Chair-1

Fellow Royal Society Canada