MARINE INSTITUTE

MEMORIAL UNIVERSITY

Postdoctoral Fellowship – Climate Change Impacts on Northwest Atlantic Marine Ecosystems & Fisheries

Climate change is impacting the world's oceans; including currents, temperature, and primary productivity. We are observing shifts in species distribution, altered ecosystem structure and function, and impacts on fisheries. To better understand the impacts of climate change on oceans and fisheries, the Fisheries & Marine Ecosystem Modelling Intercomparison Project (FishMIP), has been simulating marine ecosystem projections under various emissions scenarios. This work has contributed to United Nations Intergovernmental Panel on Climate Change (IPCC) and Intergovernmental Panel on Biodiversity & Ecosystem Services (IPBES) Assessment Reports. FishMIP recently published a United Nations Food & Agriculture Organization (FAO) Report.

The Northwest Atlantic is a dynamic region that plays an important role in the global carbon cycle. It is a hotspot of climate change with observed impacts on marine ecosystems and fisheries. Fisheries are important for economic, social, and cultural prosperity in the region. To better understand climate change impacts on marine ecosystems and fisheries, The Life Aquatic has been developing an ensemble of marine ecosystem models (Ecopath with Ecosim, mizer, species distribution). The successful Postdoctoral Fellow will develop the regional model ensemble to run FishMIP climate change simulations. The Fellow will also adapt the global scale FishMIP ocean system pathways (OSPs) of future socioeconomic storylines and scenarios to be applied to the Northwest Atlantic. This Postdoctoral Fellowship will provide networking opportunities with the FishMIP community and participation in FishMIP meetings and workshops. The Postdoctoral Fellow will also collaborate with the regional fisheries science and management agency; Fisheries & Oceans Canada.

Location: The candidate will be based at the Fisheries & Marine Institute, Memorial University, in St. John's, NL, Canada. Memorial University is a hub of ocean sciences located in the Province's capital. St. John's is a safe and friendly city with great historical charm, known for its hospitality, live music, a vibrant cultural life, and easy access to wilderness and a wide range of outdoor activities. The Life Aquatic fosters an inclusive environment, celebrates diversity, and champions a culture of respect.

Requirements:

- PhD in Fisheries Science/Ecology, Statistics, Mathematics, Marine Ecology/Biology, Oceanography or related discipline
- Demonstrated quantitative skills in ecosystem and/or statistical modelling
- Strong writing and communication skills

Duration: Two years

Salary: $70K/year plus benefits

To apply: Please send a cover letter, CV with academic references, and transcripts to Dr. Tyler Eddy tyler.eddy@mi.mun.ca. Position will remain open until filled.