

## **Graduate Student Positions (MSc, PhD) in Marine Habitat Mapping and Species Distribution Modeling**

The 4D OCEANS Lab at the Marine Institute of Memorial University, St John's, NL, Canada, is looking to recruit two graduate students (1 MSc, 1 PhD) with interest in marine habitat mapping and/or species distribution modelling. These positions will examine the role that benthic habitats play in controlling shifting patterns in species and biodiversity at fine (MSc) and broad (PhD) spatial scales in the North West Atlantic and/or Canadian Arctic Gateway. Geomorphological terrain variables derived from seafloor bathymetric data sets can be highly valuable as proxy for environmental drivers of species and habitat distributions. By including additional environmental variables such as those derived from oceanographic models, species-environment relationships can be modelled and it becomes possible to predict how marine species and ecosystems may respond to specific changes (e.g. climate change, ocean acidification, human activities).

Required skills include a quantitative background in marine ecology or biology, and familiarity with a programming language (e.g. R). Previous experience acquiring or processing acoustic or video data will be considered a strong asset.

For more information, please contact Katleen Robert ([Katleen.robert@mi.mun.ca](mailto:Katleen.robert@mi.mun.ca)) with a CV and a cover letter stating your main research interests.

Closing date: January 15, 2021

Prospective start date: May 2021

Please visit: <https://www.mi.mun.ca/graduateopportunities/>