Ocean Frontier Institute

PHD POSITION (Four-year award, valued at CAD 92,000)

Module 'N': Safe Navigation & Environment Protection

Module 'N' Summary: Established with support from the Canada First Research Excellence Fund, the Ocean Frontier Institute (OFI) is an international hub for ocean science, bringing together researchers and institutes from the North Atlantic rim to understand the changing ocean and create safe, sustainable solutions for development.

Focusing on Safe Navigation and Environment Protection, Module 'N' is a major research project funded by OFI to investigate how ocean change and anthropogenic impacts on the transportation corridor between the Northwest Atlantic and Canadian Eastern Arctic Gateway influence our understanding of risk, policy, management and regulatory efforts aimed at enhancing navigation safety, environment protection from the impacts of shipping, conflict management between ocean uses, and protection of Indigenous Peoples' interests.

PhD in Acoustical Oceanography

Position Summary: Human generated underwater noise is recognized as a stressor on the marine habitat. Increased human activity in the Arctic and high-latitude oceans is expected to alter the underwater noise field in the near future. We are seeking a PhD candidate in the Department of Oceanography to perform numerical underwater noise modelling and accompanying data analysis for model validation.

Requirements: The ideal candidate should have a B.Sc. or M.Sc. in physics, mathematics, engineering, oceanography, or related discipline, with an interest in acoustics, physical oceanography, geographic information systems, and marine biology. Strong quantitative skills in computer programming (e.g., Matlab, R, Python, C++), statistical analyses, and signal processing are preferred. Experience in underwater acoustic propagation modelling would be an asset. Applicants are advised to consult the PhD admission requirements at the Faculty of Graduate Studies: dal.ca/faculty/gradstudies.

Start date: The successful candidate will enrol in the PhD in Oceanography, Dalhousie University, for the September 2018 Fall Term and work under the supervision of Professor David Barclay and be supported by a multidisciplinary team. For further information, please contact: "Re PhD in Oceanography" llawton@dal.ca.

Application Deadline: February 28th 2018