



## **Master of Science in Maritime Studies (Safety: The Human Element)**

Start Date: September 2021

Location: School of Maritime Studies, Marine Institute, St. John's, Newfoundland

A Master of Science in Maritime Studies opportunity is available at the Fisheries and Marine Institute of Memorial University of Newfoundland starting in the fall 2021.

### **Safety: The Human Element Program**

The Master's degree in Maritime Studies (Safety: The Human Element) is a research-focused program aimed at students who have demonstrated commitment and passion for safety and survival. The program focuses on skills training that will empower students to conduct publication-quality research in safety and survival aspects of maritime studies. Students in the program will complete courses in maritime safety and survival research, statistics and research design, science communication for maritime studies, and human factors, and complete a thesis of original research. Graduates will pursue careers in research, marine based industries (e.g., fisheries, oil and gas), marine transport, firefighting, search and rescue, government, regulatory agencies, non-governmental organizations, or consulting. For more information: <https://www.mi.mun.ca/programsandcourses/programs/masterofscienceinmaritimestudiessafetythehuman/element/>

### **Research Project**

Advances in automation are transforming the maritime and offshore industries. Maritime vessels are operating with more technology and smaller team-based crews. These changes are affecting how operations are performed and how training is delivered.

Maritime operations depend on competent teams and their ability to apply technical and non-technical bridge resource management (BRM) skills, such as leadership, situation awareness, decision making, and team coordination, in dynamic and unpredictable situations. Seafarers are taught BRM skills using a combination of classroom instruction and simulator training. However, these forms of training must adapt to meet the emerging requirements of the digital transformation of the maritime workplace.

The goal of this project is to evaluate the efficacy of simulation-based training in preparing seafarers for today's challenges and to investigate how the BRM simulation-based training should be modified to assist seafarers in managing the new and changing complexities of the maritime operational setting. To address the current and arising safety concerns, the candidate will work under the supervision of Dr. Jennifer Smith from the Fisheries and Marine Institutes' School of Maritime Studies.

### **Qualifications**

The ideal candidate will:

- Possess a Bachelor's degree from Maritime Studies, Engineering, Kinesiology or related discipline from a recognized institution;
- Have research interests in human factors and maritime safety and survival;
- Capable of designing, conducting, and analyzing experiments with human subjects;
- Strong oral and written communication skills;
- Previous experience in research programs, marine-based industries, or other relevant activities is considered an asset.

### **How to Apply**

Prospective students should email their application package to Dr. Jennifer Smith at [jennifer.smith@mi.mun.ca](mailto:jennifer.smith@mi.mun.ca). The application should include a cover letter, curriculum vitae, latest university transcripts and three references.

Memorial University is committed to employment equity and diversity and encourages applications from all qualified candidates, including women; people from any sexual orientation, gender identity or gender expression; Indigenous peoples; visible minorities and racialized people and people with disabilities. Canadian citizens, permanent residents, and foreign nationals are all encouraged to apply. However, Canadian citizens and permanent residents will be given priority.