MEMORIAL UNIVERSITY

FACULTY OF ENGINEERING AND APPLIED SCIENCE

M.ENG. & PHD RESEARCH OPPORTUNITIES

MULTIMODAL GEOSPATIAL FOUNDATION MODEL–DRIVEN EXPLAINABLE AI FOR MARITIME INTELLIGENCE

Advance trustworthy geospatial AI for maritime domain awareness through multimodal remote-sensing data fusion, foundation models, and explainable AI.

SUPERVISION

Prof. Weimin Huang
Faculty of Engineering and Applied Science, MUN

Dr. Khalid El-Darymli
Adjunct Professor,
Faculty of Engineering and Applied Science, MUN

c-core

C-CORE COLLABORATION

Dr. Peter McGuire
Senior Engineer

Mr. Desmond Power
Vice-President, Remote Sensing

IDEAL CANDIDATES

- Geospatial or multimodal foundation models
- Remote sensing and Earth observation
- Python with PyTorch or TensorFlow
- Machine learning, computer vision, and XAI
- Multimodal data fusion and SAR
- Maritime surveillance or domain awareness

START DATE

As soon as admission to MUN is secured.

FUNDING

Graduate research funding is available.

HOW TO APPLY

Send one PDF containing your CV, transcripts, brief research statement, and relevant work to:

weimin@mun.ca | khalid.el-darymli@drdc-rddc.gc.ca

Subject: Graduate Application – Geospatial AI for Maritime Intelligence

Applications will be reviewed on a rolling basis. Dr. El-Darymli participates solely in his academic capacity as an Adjunct Professor at Memorial University. These positions are not funded or sponsored by Defence Research and Development Canada.

St. John's, Newfoundland and Labrador, Canada