



AI Engineer, Intermediate — Maritime Domain Awareness

At C-CORE, we are committed to investing in people and creating a dynamic and rewarding employment experience. We are seeking an **AI Engineer** to join our COREsight Team. This position is based in St. John's, NL.

If you have a passion for complex design solutions, hands-on development, and contributing to cutting-edge R&D projects from concept to commissioning, this opportunity may be for you. Are you enthusiastic about engineering, attentive to detail, and motivated to support a diverse team of professionals in a dynamic environment? If so, we want you on our team!

About C-CORE

C-CORE conducts R&D and provides research-based advisory services, delivering innovative engineering and technology solutions to national and international clients. For over 50 years, we have built a world-class team of professionals in Remote Sensing and Oceans & Energy. We are global leaders in Earth Observation and geospatial intelligence, with our flagship platform COREsight driving major contracts in defense, environmental monitoring, and advanced R&D.

Position Overview

COREsight is a Maritime Domain Awareness (MDA) platform that fuses satellite imagery (SAR, optical), AIS vessel tracking, and RF signal detection into a real-time analyst environment used by government and defence customers, including an active NATO-affiliated deployment. We are looking for an AI Engineer to work on the ML core of the platform — the models and pipelines that turn raw satellite and sensor data into actionable maritime intelligence.

This is a hands-on ML role, not front-end: you'll be working on target correlation algorithms, data fusion pipelines, geospatial foundation models, and the production ML pipeline (MLOps) that supports them, reporting to the Director, COREsight.

Key Responsibilities

- Develop and refine ML models for maritime target correlation, integrating satellite imagery, AIS, and RF data sources
- Research, evaluate, and adapt geospatial foundation models for remote sensing and Earth observation tasks relevant to MDA
- Design and maintain MLOps infrastructure: model registry, experiment tracking, automated retraining, validation, and staged deployment
- Evaluate model performance against operational metrics and support continuous model monitoring in production

- Document methods, experiments, and results to support reproducibility and knowledge transfer
- Collaborate with backend developers and analysts to integrate ML outputs into the COREsight platform

Desired Qualifications

- B.Sc. or M.Sc. in Computer Science, Engineering, Geomatics, or a related field
- 3–5 years of work experience
- Deep understanding of machine learning and deep learning (CNNs, transformers, object detection architectures)
- Demonstratable experience in Python and at multiple ML frameworks
- Solid understanding and experience with ML experiment workflows: data preparation, training, evaluation, iteration
- Experience with geospatial data formats and tools (GeoTIFF, Shapefiles, GDAL/OGR, rasterio, geopandas) (asset)
- Exposure to SAR imagery or remote sensing data (asset)
- Familiarity with MLOps tooling (MLflow, DVC, Weights & Biases, or similar) (asset)
- Experience with containerization (Docker) and CI/CD concepts (asset)
- Knowledge of cloud compute for ML workloads (GCP or similar) (asset)
- Published research or project work in geospatial AI or Earth observation (asset)

Why Join Us?

C-CORE offers competitive salaries and benefits, including attractive vacation entitlements and comprehensive medical and dental plans. We support professional development and personal growth. Here's what makes this role special:

- **Modern Frontend Stack:** React/Mapbox/Vite/React-query/Zustand
- **Impact:** Your work will directly support important national and global initiatives, from defense contracts to climate resilience.
- **Innovation:** Work on a platform that supports cutting-edge solutions in AI, defense, environmental monitoring, and R&D.
- **Collaboration:** Join a team that values knowledge sharing, curiosity, and is passionate about what we do.
- **Growth Opportunities:** Be part of a growing team with plenty of opportunities for professional development.

C-CORE is an equal opportunity employer. Due to the nature of this role, candidates must be Canadian citizens eligible for Government of Canada security clearance at the Secret level.

How to Apply

Please forward your resume electronically to: careers@c-core.ca, stating "**AI Engineer, Intermediate — Maritime Domain Awareness**" in the subject line.

Deadline to Apply

August 13, 2026

C-CORE thanks all applicants; however, only those selected for an interview will be contacted.