

College of the North Atlantic

Overview

College of the North Atlantic, Newfoundland and Labrador's public college, has a history dating back nearly 50 years. With 17 campus locations throughout Newfoundland and Labrador and one in the Middle East State of Qatar, their research and innovation network seeks to enhance prosperity of the province by coordinating applied research with private and public sector partnerships.

Research Capabilities

Geospatial Resource Management

- Mapping, sensing and data collection
- Novel computer-generated, interactive maps using data stored in GIS
- Real-time views using GPS based navigation
- Remote sensing technologies
- Web interface development to provide users with standard web browser access to GIS

Manufacturing Technology

- Creation of complex geometric models of product concepts
- Injection moulding
- Vacuum former
- Coordinate measuring machine
- Wire electrical discharge machine
- Computer numerical-controlled machining centres and lathes
- CO₂ Laser

Materials and Nanotechnology

- Synchrotron beam line
- Thin film technologies
- Differential scanning calorimetry
- UUV-VIS-NIR spectroscopy
- Atomic force spectroscopy
- Dielectric measurements
- Dark and photoconductivity measurements
- Cell design for conductivity and dielectric measurements

Petroleum

- State of the art equipment and related to petroleum production, well control, fluid hydraulics and industrial instrumentation
- Well control and process loop simulators
- Reservoir analysis laboratory
- Modelling Software
- Production Process facility
- Instrumentation and controls system
- Petroleum Applications of Wireless Systems
- Network-based remote control of petroleum production-related instrumentation

Ocean Tech & Wave Energy

- Harnessing ocean wave energy into onshore commercial applications
- Burin Peninsula Research Center
 - Unique geographical conditions
 - Metal fabrication
 - Welding QA failure analysis
 - Electronics, control systems
 - Biologists and chemists

Agrifoods

- Application of new technologies and transfer of knowledge to sector
- R&D
- Develop products and production processes
- Shelf life analysis
- Modified Atmospheric Packaging
- Nutritional and ingredient labeling
- Aquaculture Development

Telecommunications

- Cisco Instructor Training Centre and Academy Support Centre

Contact

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