Life. Sometimes it seems like there are a million different paths you can take.

So which way should you go?

Whatever you want to be and wherever you want to go, Marine Institute grads have been there and done that.

Whatever the path, you can get there from here.
Welcome to the Marine Institute.
We’re a world-leading centre for marine and ocean-related career education and research.

At MI, you can expect a hands-on experience that prepares you for the career of a lifetime.

Save the world? We’ll get you on track to become a guardian of the world’s waterways and coastal zones.

See the world? Start here and prepare for a life aboard a ship as a captain or marine engineer.

We’ll take you to the bottom of the ocean and above the Arctic Circle. Piloting remotely operated vehicles — the only program of its kind in Canada — is just one of the things we teach. Step inside our marine simulator and you’re onboard ships anywhere in the world.

A cutting-edge education from the Marine Institute is one of the most affordable in Canada and gives you credentials that are recognized around the globe.

Learn here and watch a world of opportunities open up.
MI GRADS ARE ON THE FRONT LINES EVERYWHERE.

As part of Memorial University, the Marine Institute provides you with credentials that are recognized around the world. As the largest institute of its kind in Canada, Marine Institute offers a suite of programs that are found nowhere else in the country.

From Marine Engineering Systems Design to Marine Environmental Technology to Ocean Mapping, MI also offers an array of industry-leading land-based programs. We’ll set you up to shine in your chosen field, whether you’re in the lab or the boardroom.

Marine Institute also offers programs and courses through our Stephenville location on the west coast of Newfoundland.

Marine Institute offers many programs completely online and others partially online; enabling students to balance work, life and study.
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HOW TO RECOGNIZE AN MI GRAD

Fearless but no fool. The go-to person who’s game to go anywhere. Practical and methodical but never on the sidelines.

Sound like you?

When you’re ready, you’re ready for anything.

An education from the Marine Institute includes technical, hands-on training geared to equip you with exactly the right skills for your new career.

MI grads are employed all over the world in their chosen fields. Browse each program page and meet some former students who’ve turned their education into satisfying careers.
The Marine Institute offers a wide variety of programs that include a mix of classroom instruction and in-the-field training.

Lengths of programs and entry requirements vary. A background for terms like ‘diploma’, ‘certificate’ and ‘degree’ is offered below.

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<td><strong>Technical Session</strong></td>
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<td>A period of study from three to eight weeks usually held after the winter semester in April.</td>
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<td><strong>Semester</strong></td>
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<td>A period of approximately 15 weeks during which regular classes are held. Normal start dates are September, January and May.</td>
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<td><strong>Work Term</strong></td>
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<td>An MI-approved experiential learning opportunity included as a part of the requirements of an academic program that may require completion of a log book, report or portfolio.</td>
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<td><strong>Sea Days</strong></td>
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GUIDE TO PROGRAMS

UNDERGRADUATE DEGREES & DIPLOMAS:

BACHELOR DEGREE
DIPLOMA OF TECHNOLOGY
DIPLOMA OF TECHNOLOGY / BACHELOR OF TECHNOLOGY
TECHNICIAN DIPLOMA

PRACTICAL TRAINING IN ONE YEAR OR LESS:

TECHNICAL CERTIFICATE

PROGRAMS FOR DEGREE & DIPLOMA HOLDERS:

ADVANCED DIPLOMA
MASTER’S DEGREE
POSTGRADUATE CERTIFICATE
PhD

Advanced Diploma
A one-year graduate option that builds on a diploma or degree program and includes technical and hands-on experience as well as work term opportunities.

Bachelor Degree
A convenient and practical opportunity that enables laddering of a diploma program.

Diploma of Technology
A three- to four-year program that offers hands-on technical sessions and the ability to complete a bachelor degree with one additional year.

Diploma of Technology/Bachelor of Technology
This program offers an option to add an additional year to earn a bachelor degree.

Technician Diploma
A two-year program that offers hands-on training and a work-term, with the opportunity to complete a bachelor degree with two additional years.

Master’s Degree
A graduate opportunity that builds on previous undergraduate-level work.

Postgraduate Certificate
An applied and practical suite of four courses aimed at providing targeted professional competencies.

Technical Certificate
This hands-on educational opportunity can be completed in one year or less and includes a practical work term.

Doctor of Philosophy (PhD)
A globally recognized postgraduate academic degree awarded to a candidate who has submitted a thesis based on extensive and original research on an original topic.
WHAT ALUMNI SAY

“This program formed the foundation I needed to confidently enter the workforce and gave me the opportunities that enabled me to begin my career.”

- Jessica Butler, MI Graduate
MARINE ENGINEERING

DIPLOMA OF TECHNOLOGY
Maintain and control ship systems and operate onboard machinery in senior positions.

SKILLS & INTERESTS
You have the technical aptitude and ability to analyze and troubleshoot the interconnected workings of complex machinery.

WORK ENVIRONMENT
Onshore and onboard marine vessels in engineering and technical positions around the world

POTENTIAL CAREERS
• Marine Vessel Marine Engineer
• Positions in government and engineering firms
• Fleet Superintendent

SAMPLE COURSES
• Marine Engineering Knowledge
• Electrotechnology
• Naval Architecture

TOTAL PROGRAM LENGTH
4 YEARS

PRACTICAL EXPERIENCE
180 SEA DAYS 3 TECHNICAL SESSIONS
"At the Marine Institute, I was able to achieve a high-quality education that is recognized worldwide."

- Alicia Nash, MI Graduate
MARINE ENGINEERING
SYSTEMS DESIGN

DIPLOMA OF TECHNOLOGY

Apply engineering and architectural principles, in the elite production areas of piping, propulsion and other mechanical systems that operate ships, drilling platforms and subsea structures.

SKILLS & INTERESTS

You’re a versatile problem solver, using math and science to develop effective engineering design solutions for marine and land-based industries.

WORK ENVIRONMENT

Worldwide opportunities for office-based design work and on-site consultation

POTENTIAL CAREERS

- Marine Systems Drafter/Designer
- Piping Designer
- Project Manager
- Mechanical Technologist

SAMPLE COURSES

- Ship Engineering Design
- Machinery Arrangement
- Fluid Mechanics

TOTAL PROGRAM LENGTH

3 YEARS

PRACTICAL EXPERIENCE

3 TECHNICAL SESSIONS
“The Nautical Science program enabled me the opportunity to work in the international maritime and oil & gas industries, take command of a 258 metre Floating Production and Storage unit Offshore (FPSO), become a certified marine surveyor, lecture at the Marine Institute and take a management position with one of the largest tanker companies in the world.”

-Rob McNamara, MI Graduate
NAUTICAL SCIENCE

DIPLOMA OF TECHNOLOGY

Your ticket to the realm of international shipping on the Seven Seas and the inland waterways of the world.

Take command of your future!

SKILLS & INTERESTS

You love being on the water and have leadership skills.

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<td>You don’t want to be chained to a desk; you have a passion for the natural environment and may have heard a call in the ocean’s roar. You have good leadership and teamwork skills and believe that great efforts earn great rewards</td>
<td>• Captain or watchkeeping officer on ships from tug boats to supertankers • Marine consultant for private industry • Lecturer in maritime education and training</td>
<td>• Navigation • Ship Stability • Cargo Operations</td>
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TOTAL PROGRAM LENGTH

4 YEARS

PRACTICAL EXPERIENCE

360 SEA DAYS 3 TECHNICAL SESSIONS
WHAT ALUMNI SAY

"The Naval Architecture program gave me the technical skills and knowledge that allowed me to work immediately after graduation in both a design office and shipyard environment. I would highly recommend the program to anyone that has an interest in learning how vessels are designed and constructed." - Scott Rose, MI Graduate
NAVAL ARCHITECTURE

DIPLOMA OF TECHNOLOGY
Design large ships, small craft and floating structures for the world’s waterways.

SKILLS & INTERESTS
With an eye for detail and an aptitude for design, you see the art and science in a vessel’s curves and lines.

WORK ENVIRONMENT
Worldwide opportunities for office-based design work, on-site consultation and project management

POTENTIAL CAREERS
• Naval Architect
• Engineering Technologist
• Yacht Designer
• Ship Inspector

SAMPLE COURSES
• Ship Design
• Stability
• Resistance and Propulsion
• Structural Engineering

TOTAL PROGRAM LENGTH
3 YEARS

PRACTICAL EXPERIENCE
3 TECHNICAL SESSIONS
WHAT ALUMNI SAY

“The laboratory, field and office based skills and experience that I gained through the program allow me to confidently participate in diverse, meaningful and challenging work environments”

- Ashley Davies-Marsh, MI Graduate
MARINE ENVIRONMENTAL TECHNOLOGY

DIPLOMA OF TECHNOLOGY /BACHELOR OF TECHNOLOGY

Protect and manage marine environments as well as rivers, lakes and coastal areas.

SKILLS & INTERESTS

You have an appreciation of marine habitats and are interested in the science of conservation and management.

WORK ENVIRONMENT

In the field, in the lab and in the office

POTENTIAL CAREERS

• Environmental and Regulatory Advisor
• Lab Technologist
• Health, Safety and Environmental Officer

SAMPLE COURSES

• Basic Oil Spill Response
• Oceanography
• Marine Biology

TOTAL PROGRAM LENGTH

4* YEARS

PRACTICAL EXPERIENCE

2 WORK TERMS 2 TECHNICAL SESSIONS

* With an option to exit at 3 years with Diploma of Technology
"The skills and knowledge gained from this program open so many doors in the field of Ocean Mapping. From mapping seamounts off the coast of Mexico, exploring the icy waters of the Arctic, or charting the coastal shores of Newfoundland, this program will take you there. Go explore our oceans; MI will help make it possible!"

- Sarah Walsh, MI Graduate
OCEAN MAPPING

DIPLOMA OF TECHNOLOGY / BACHELOR OF TECHNOLOGY

Delve deep into the study of the ocean using industry-driven acoustic technology and leading edge software applications.

SKILLS & INTERESTS

Ever wonder what lies beneath? Want to map the unknown? Discover your inner explorer and unlock the mysteries of the ocean.

WORK ENVIRONMENT

Offshore and onshore data processing, analysis, management and dissemination

POTENTIAL CAREERS

• Hydrographic/Geophysical Technologist
• Geographic Information Systems Specialist
• UAV / Drone Pilot

SAMPLE COURSES

• Multibeam Sonar
• Sidescan Sonar
• Oceanography
• Geographic Information Systems
• Underwater Acoustics

TOTAL PROGRAM LENGTH

4* YEARS

PRACTICAL EXPERIENCE

1 WORK TERM
3 TECHNICAL SESSIONS

* With an option to exit at 3 years with Diploma of Technology
WHAT ALUMNI SAY

“I’ve travelled to some very interesting places and met some pretty interesting people. Choosing the ROV program was a great decision.”

- Karla Brown, MI Graduate
UNDERWATER VEHICLES

DIPLOMA OF TECHNOLOGY / BACHELOR OF TECHNOLOGY

Pilot, operate and maintain remotely operated vehicles and autonomous underwater vehicles through challenging underwater environments.

SKILLS & INTERESTS

You’re ready to turn your interest in electromechanical technology and robotics into a career in underwater vehicles.

WORK ENVIRONMENT

Offshore oil, gas and wind energy, exploration and subsea structures, onshore manufacturing, simulation, research support and aquaculture industries

POTENTIAL CAREERS

- ROV pilot
- AUV Operator
- AUV Design Integration
- Electronics Technician/Technologist
- Support operations in diving, research vessels, survey and maintenance
- Career paths within offshore industries and navy

SAMPLE COURSES

- Autonomous Underwater Vehicle design
- Control Electronics
- Hydraulics
- ROV piloting

PROGRAM LENGTH

4 YEARS*

* With options to exit at 2 years with a Technician Diploma in Remotely Operated Vehicles or at 3 years with a Diploma of Technology

PRACTICAL EXPERIENCE

1 WORK TERM

2 TECHNICAL SESSIONS

23
"The program is a good merger of theory based subjects and practical applications of the skills I’ve learned, including being able to work hands on with vehicle systems. I’m looking forward to starting a research career, using ROVs to study geological features of the seafloor."

- Keely-Shaye Lullwitz, MI Graduate
TECHNICIAN DIPLOMA
Pilot, operate and maintain remotely operated vehicles through challenging environments.

SKILLS & INTERESTS
You are ready to turn your interest in electronics, hydraulics and machines into a career in remotely operated vehicles.

WORK ENVIRONMENT
Offshore oil, gas and wind energy, exploration and subsea structures, onshore manufacturing, simulation, and aquaculture industries

POTENTIAL CAREERS
• ROV Pilot, Technician
• Support operations in diving and research vessels
• Career paths within offshore industries and navy

SAMPLE COURSES
• ROV Piloting
• Control Electronics
• Hydraulics

TOTAL PROGRAM LENGTH
2 YEARS

PRACTICAL EXPERIENCE
1 WORK TERM 2 TECHNICAL SESSIONS

* Advanced standing option available to enter into year two. Students can continue into the Underwater Vehicles program in the third year.
WHAT ALUMNI SAY

“I had a great experience, which I am now applying as an employee. My life has changed.”

- Tia England, MI Graduate
BRIDGE WATCH

TECHNICAL CERTIFICATE
Prepare for a career in key positions on board ships anywhere in the world.

SKILLS & INTERESTS
You’re ready to launch into a hands-on career aboard vessels with the skills needed to fill multiple roles.

WORK ENVIRONMENT
On board ships for a period of time

POTENTIAL CAREERS
• Bridge Watchman
• Deckhand
• Employment aboard cargo and passenger ships, oil tankers, supply and fishing vessels

SAMPLE COURSES
• Marine Safety
• Marine Basic First Aid
• Oil and Chemical Tanker Familiarization

TOTAL PROGRAM LENGTH
8 MONTHS
IN-CLASS INSTRUCTION INCLUDING SAFETY TRAINING

PRACTICAL EXPERIENCE
1 WORK TERM (60 SEA DAYS)
“Marine Institute gives more than the ability to pursue a career in the fire service, they give the confidence and knowledge required to step into the real world of firefighting.”

- Kyle Castelin, MI Graduate
FIRE RESCUE

TECHNICAL CERTIFICATE
Train for nationally-certified credentials as a firefighter.

SKILLS & INTERESTS
You’re a calm-under-pressure person ready for a rewarding career on the front lines of emergency situations. This program fulfills the National Fire Protection Association professional standard.

WORK ENVIRONMENT
Emergency situations and on-site firefighting using specialized equipment

POTENTIAL CAREERS
- Municipal, airport and industrial fire departments

SAMPLE COURSES
- Firefighter Level I and II
- Fire Apparatus Driver Operator
- Technical Rescuer

TOTAL PROGRAM LENGTH
2 TERMS

PRACTICAL EXPERIENCE
1 WORK TERM
“Marine Diesel Mechanics is an excellent program. Great instructors and courses like Welding and Marine Engineering Knowledge prepare graduates for a fulfilling career in the Marine industry.”

- Brad Oxford, MI Graduate
MARINE DIESEL MECHANICS

TECHNICAL CERTIFICATE

Prepare for a career at sea as an Engine Room Rating. Learn about the operation and maintenance of a ship’s engines and auxiliary machinery.

SKILLS & INTERESTS

You have a desire to go to sea as a team player in the Engine Room Department and a mechanical aptitude with a drive to help troubleshoot machinery.

WORK ENVIRONMENT

- Employment onboard a variety of ships and offshore rig installations
- Marine equipment service centres
- Oil drilling platforms

POTENTIAL CAREERS

- Shipboard Engine Room Rating
- Marine Diesel Mechanic/Technician

SAMPLE COURSES

- Machine Shop Practice
- Welding Practice
- Ship Construction and Stability

TOTAL PROGRAM LENGTH

1 YEAR

IN-CLASS INSTRUCTION INCLUDING SAFETY TRAINING

PRACTICAL EXPERIENCE

1 WORK TERM (60 SEA DAYS)
1 TECHNICAL SESSION
“As a serving officer of the Royal Canadian Navy (RCN) the BMS program allowed me to take the practical experience from the RCN, and apply it in an academic context. The flexibility of completing courses online allowed me to advance my career while simultaneously pursuing my degree.”

- Daniel Fletcher, MI Graduate
MARITIME STUDIES
(MARITIME MANAGEMENT)

BACHELOR DEGREE
Learn cutting-edge management concepts for today’s maritime and related industries

SKILLS & INTERESTS
You have a background in a maritime related field and want an in-depth understanding of best management and safety practices in maritime industries.

WORK ENVIRONMENT
On board ships and onshore in marine-related sectors

POTENTIAL CAREERS
• Senior Ship’s Officer
• Marine Management

SAMPLE COURSES
• Trends and Issues in Shipping
• Marine Environmental Management
• Risk Management

TOTAL PROGRAM LENGTH
39 CREDIT HOURS completed on a part-time basis. Online delivery with select courses available on campus.

PRACTICAL EXPERIENCE
13 COURSES
WHAT ALUMNI SAY

“Graduates of this program will possess a unique skill set which will provide them with qualifications needed to work in the oceans safety sectors. This first of its kind program offered in Canada will satisfy the long-standing gap in education needs for the specific safety management practices in the oceans industries”

- Captain Fabian Lambert
SKILLS & INTERESTS

You want to encourage the principles of a safety culture within a maritime organization and are dedicated to maintaining and improving safety standards.

WORK ENVIRONMENT

In the field, on land or offshore for the maritime industry.

POTENTIAL CAREERS

• Marine Safety Officer/Inspector/Supervisor
• Fleet Safety Manager
• Port authority Safety Coordinator
• Safety Policy Analyst
• National Marine Safety Management

SAMPLE COURSES

• Marine Environmental Management
• Human Factors in the Maritime Sector
• Risk Management in the Maritime Sector

TOTAL PROGRAM LENGTH

39 CREDIT HOURS completed on a part-time basis. Delivered online.

PRACTICAL EXPERIENCE

13 COURSES
“The course content was extensive and has played a pivotal role in my career success to date.”

- Kirk Elliott, MI Graduate
TECHNOLOGY
(ENGINEERING AND APPLIED SCIENCE TECHNOLOGY)

BACHELOR DEGREE
Prepare for a career as a technology leader.

SKILLS & INTERESTS
You’re ready to develop the skills needed for supervisory positions.

WORK ENVIRONMENT
Management in a number of industries

POTENTIAL CAREERS
• Technical Manager
• Project Manager
• Project Supervisor

SAMPLE COURSES
• Project Management
• Technology Assessment
• Quality Management

TOTAL PROGRAM LENGTH
39 CREDIT HOURS completed on a full-time or part-time basis. Delivered online with select courses available on campus.

PRACTICAL EXPERIENCE
13 COURSES
“I truly enjoy working in the field of Medical Laboratory Technology and the B.Tech (Health Science) program opens up management and other opportunities while giving me a sense of personal and professional accomplishment.”

- Cindy Hann, MI Graduate
SKILLS & INTERESTS

You have a background in the health sciences field and want to advance to apply your human resource and business management knowledge.

WORK ENVIRONMENT

• Health Care
• Laboratories
• Testing Environment
• Health Care Information Systems

POTENTIAL CAREERS

• Project Manager
• Information Supervisor
• Laboratory Supervisor
• Policy Supervisor

SAMPLE COURSES

• Project Management
• Health Care Management
• Technical Operations Management

TOTAL PROGRAM LENGTH

39 CREDIT HOURS completed on a part-time basis. Delivered online with select courses available on campus.

PRACTICAL EXPERIENCE

13 COURSES
"This program will provide you with a thorough understanding of the processes and regulations involved in the food industry to help launch your career."

- Rebecca Stowe, MI Graduate
FOOD SAFETY

ADVANCED DIPLOMA
Work on the front line protecting the public from food-related safety issues.

SKILLS & INTERESTS

Apply your scientific and analytical abilities to protect the food we eat.

WORK ENVIRONMENT
Food-related facilities, analytical laboratories, government departments

POTENTIAL CAREERS
• Positions with provincial and federal food inspection agencies
• Quality supervisors/managers in the food industry

SAMPLE COURSES
• Food Chemistry
• Food Microbiology
• Fundamentals of Food Law

TOTAL PROGRAM LENGTH
1 YEAR

PRACTICAL EXPERIENCE
1 WORK TERM
WHAT ALUMNI SAY

“The program provides a wide range of hands-on and classroom experiences in a communal, family-like setting; preparing students to make valuable contributions to the field of aquaculture and to support this vital method of food production.”

- Max Licker, MI Graduate
SUSTAINABLE AQUACULTURE

ADVANCED DIPLOMA
Train for a leading role in the global aquaculture industry.

SKILLS & INTERESTS
You want to feed the world through sustainable and healthy food production.

WORK ENVIRONMENT
• Marine and freshwater fish farms, hatcheries
• Government agencies
• Research institutes

POTENTIAL CAREERS
• Aquaculture Technologist
• Aquaculture Scientist
• Positions with provincial and federal agencies

SAMPLE COURSES
• Aquaculture and the Environment
• Aquaculture Engineering
• Finfish and Shellfish Culture

TOTAL PROGRAM LENGTH
1 YEAR

PRACTICAL EXPERIENCE
1 WORK TERM
"I would label my experience at the Marine Institute (MI) as life changing. The work term I obtained through the program was with my current employer. Had I not pursued the Water Quality program at the Marine Institute, I may have never obtained the job I have today."

- Natasha Warren, MI Graduate
WATER QUALITY

ADVANCED DIPLOMA
Develop the skills and knowledge necessary for responsible utilization and treatment of water resources.

SKILLS & INTERESTS
You’re thirsty for a career in the scientific, technical, and social aspects surrounding water resources.

WORK ENVIRONMENT
Field work, laboratory settings, water/wastewater facilities, government departments, consulting and environmental firms

POTENTIAL CAREERS
• Water Quality Inspectors
• Water Quality Specialists
• Environmental Technicians/Scientists

SAMPLE COURSES
• Water Chemistry
• Environmental Policy
• GIS/Remote Sensing

TOTAL PROGRAM LENGTH
1 YEAR

PRACTICAL EXPERIENCE
1 WORK TERM 1 TECHNICAL SESSION
WHAT ALUMNI SAY

“I enjoyed every minute of the program. The instructors were great and I found the course material to be very relevant to my job.”

- Paula Chaplin, MI Graduate
QUALITY MANAGEMENT

POSTGRADUATE CERTIFICATE
Learn advanced management strategies that apply to any industry or sector.

SKILLS & INTERESTS
You are a busy professional desiring to build competencies in quality management and enhance personal productivity.

WORK ENVIRONMENT
Office and technical environments working with people, processes and quality systems

POTENTIAL CAREERS
- Quality Management Systems Manager
- Quality Assurance Manager
- Project Manager

SAMPLE COURSES
- Quality Management
- Project Management
- ISO Management

TOTAL PROGRAM LENGTH
4 ONLINE COURSES
WHAT ALUMNI SAY

“The MMS program is a must for individuals involved in fisheries resource management locally, nationally or internationally.”

- Brooks Pilgrim, MI Graduate
MARINE STUDIES
(FISHERIES RESOURCE MANAGEMENT)

MASTER’S DEGREE
Gain a multidisciplinary graduate degree in the entire range of fisheries management issues.

Exit option for graduate diploma.

SKILLS & INTERESTS
You want to delve deeper into the interconnected economic, political, ecological and oceanographic challenges of fisheries management.

WORK ENVIRONMENT
Fish harvesting companies, government institutes, international agencies and leading policy organizations

POTENTIAL CAREERS
• Fisheries Management
• Fisheries Consultant
• Fisheries Policy Analyst

SAMPLE COURSES
• Fisheries Ecology
• Fisheries Policy and Planning
• Fisheries Economics

TOTAL PROGRAM LENGTH
24 CREDIT HOURS FOR MAJOR PAPER OPTION
Delivered online

30 CREDIT HOURS FOR COMPREHENSIVE COURSE OPTION
Delivered online
WHAT INDUSTRY SAYS

“MSP is developing rapidly in many areas, especially the EU, US and Australia. Engaging in effective decision-making through an MSP process is a key need for the ocean business community.”

- Paul Holthus, CEO, World Ocean Council
MARINE STUDIES
(MARINE SPATIAL PLANNING & MANAGEMENT)

MASTER’S DEGREE
Influence, lead, and provide decision making support for the management and planning of coastal and marine spaces.

SKILLS & INTERESTS
You want to work collaboratively to analyze how development impacts the ecological, economic, social and cultural aspects of coastal and marine areas and deliver sustainable solutions.

WORK ENVIRONMENT
Government agencies, eNGOs, coastal and ocean industry sectors, consulting companies

POTENTIAL CAREERS
- Marine Spatial Planning Officer or Specialist
- Marine Planner
- Coastal and Marine Manager

SAMPLE COURSES
- Geospatial Analysis for Marine Spatial Planning
- Marine Protected Areas
- Communication and Conflict Resolution

TOTAL PROGRAM LENGTH
30 CREDIT HOURS WITH AN INTERNSHIP OR RESEARCH PAPER OPTIONS
Delivered primarily online with some in-class instruction
WHAT ALUMNI SAY

“I had a very positive experience and got a lot out of it. I would recommend it to others involved in the marine industry.”

- Captain Stephen Coady, MI Graduate
MARITIME MANAGEMENT

MASTER’S DEGREE
Train for a leading organizational role in maritime-based organizations.

SKILLS & INTERESTS
You’re preparing for a management career in the marine industry and want to develop your knowledge of international best practices and the structure and function of marine-based operations.

WORK ENVIRONMENT
Maritime-related industries and government agencies

POTENTIAL CAREERS
• Senior-level management positions

SAMPLE COURSES
• Maritime Security
• Marine Policy
• Marine Law

TOTAL PROGRAM LENGTH
30 CREDIT HOURS WITH COURSE BASED AND MAJOR PAPER OPTIONS
Delivered Online
WHAT ALUMNI SAY

“This is a wonderful course and very relevant to mid-career experienced professionals, like myself.”
- Indira Balakrishnan, MI Graduate
TECHNOLOGY MANAGEMENT
(ENGINEERING & APPLIED SCIENCE TECHNOLOGY)

MASTER’S DEGREE
Understand processes in technology-based organizations.

SKILLS & INTERESTS
You have a technology background and are ready to manage the challenges and dynamics of industries driven by technological innovation.

WORK ENVIRONMENT
- Technology-based organizations
- Government agencies
- Health, science, oil and gas, engineering technology

POTENTIAL CAREERS
- Management
- Project Management
- Information Technology Director
- Technology Manager
- Senior Technology Consultant

SAMPLE COURSES
- Management of Technological Innovation
- Intellectual Property Management
- Project Management

TOTAL PROGRAM LENGTH
- CREDIT HOURS FOR PROJECT OPTION: 24
- Delivered online
- CREDIT HOURS FOR COURSE OPTION: 30
- Delivered online
WHAT RESEARCHERS SAY

“Graduate students enrolled in this program will receive access to world-class facilities, scientists, and research opportunities. It’s a truly unique program dedicated to producing professional fisheries scientists for the future.”

- Dr. Paul Winger
FISHERIES SCIENCE
(FISHERIES SCIENCE AND TECHNOLOGY)

MASTER OF SCIENCE DEGREE

Become a world-class researcher, doing applied work able to inform the management and practice of fisheries.

SKILLS & INTERESTS

You want to serve as a resource that can positively contribute to fisheries science and management through the mobilization and communication of original research.

WORK ENVIRONMENT

Academia, government agencies, NGOS, international management bodies, seafood industry

POTENTIAL CAREERS

- Fisheries scientist
- Non-government organizations
- Fisheries management consultant

SAMPLE COURSES

- Science Communication for Fisheries
- Ecology, Management, and Practice of North Atlantic Fisheries
- Data Collection, Management, and Display

TOTAL PROGRAM LENGTH

2 YEARS

ON CAMPUS COURSES AND RESEARCH-BASED THESIS
Fisheries stock assessment scientists are in high demand in Canada and internationally. This one of a kind program will train the next generation of researchers that manage sustainable fisheries for future generations.

- Thomas Brown
FISHERIES SCIENCE
(STOCK ASSESSMENT)

MASTER OF SCIENCE DEGREE

Develop and apply expert mathematical and statistical skills, vital to the sustainable management of marine fisheries.

SKILLS & INTERESTS

You want to apply your mathematics and statistics expertise to construct models that inform stakeholders about biomass of organisms in the ocean and how to harvest sustainably.

WORK ENVIRONMENT

Academia, government agencies, NGOS, international management bodies, seafood industry

POTENTIAL CAREERS

- Stock Assessment Researcher
- Policy Advisor
- Fisheries Consultant

SAMPLE COURSES

- Overview of Statistical Stock Assessment
- Advanced Statistical Stock Assessment
- Science Communication for Fisheries

TOTAL PROGRAM LENGTH

2 YEARS ON CAMPUS COURSES AND RESEARCH-BASED THESIS
"This program trains students to be great scientists that are also great at mobilizing knowledge to improve humanity’s relationship with the oceans."

- Dr. Brett Favaro
FISHERIES SCIENCE

DOCTOR OF PHILOSOPHY

Conduct and translate world class fisheries research through quantitative techniques, study design and science communication.

SKILLS & INTERESTS

You want to participate in the development of new fisheries science knowledge.

WORK ENVIRONMENT

Academia, government agencies, NGOS, international management bodies, seafood industry

POTENTIAL CAREERS

- Fisheries Scientist
- Professor
- Fisheries Management Consultant

SAMPLE COURSES

- Ecology, Management, and Practice of North Atlantic Fisheries
- Statistics and Study Design for Fisheries Science
- Overview of Statistical Stock Assessment

TOTAL PROGRAM LENGTH

4 YEARS

ON CAMPUS COURSES AND RESEARCH-BASED THESIS
LAND, SEA, SKY AND CITY LIFE. IT’S ALL OUT HERE.

St. John’s

The most easterly city in North America, St. John’s has been at the center of the ocean-going world for over 500 years.

Here is where the Old World meets the New. Hike unspoiled wilderness. Explore thousands of kilometres of coastline. Closer to campus, the City of St. John’s offers a lively downtown scene of restaurants, pubs and shops. As part of Memorial University, enrolment at MI gives you access to over 100 student union clubs that span the range of academic, athletic, political, religious and recreational interests.

Just make sure you find some time to study.

Stephenville

MI’s Stephenville location is set on Newfoundland’s beautiful west coast.

Safety programs like Fire Rescue are centered here at the Safety and Emergency Response Training Centre (SERT). From Stephenville, you can tour the world-renowned Gros Morne National Park and enjoy an array of other outdoor activities.
TUITION + FINANCES

The Marine Institute offers you a competitive tuition that maximizes your educational assets. Our affordable tuition is just another reason why the Marine Institute is where you want to be.

Visit www.mi.mun.ca/registration for up-to-date information on tuition and fees, including compulsory fees for all programs.

Sample Estimate for First Year Tuition - 2019-20 Academic Year
Diplomas of Technology, Technician Diplomas, Diplomas of Technology/Bachelor of Technology

<table>
<thead>
<tr>
<th></th>
<th>NL Students</th>
<th>Non-NL Canadian Students</th>
<th>International Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 1</td>
<td>$690</td>
<td>$900</td>
<td>$2700</td>
</tr>
<tr>
<td>Term 2</td>
<td>$690</td>
<td>$900</td>
<td>$2700</td>
</tr>
<tr>
<td>Technical Session</td>
<td>$345</td>
<td>$450</td>
<td>$1350</td>
</tr>
<tr>
<td>Work Term (where applicable)</td>
<td>$173</td>
<td>$225</td>
<td>$675</td>
</tr>
</tbody>
</table>

The contents of this publication set forth the intentions of the Marine Institute at the time of publication with respect to program offerings, admissions and fees. The Marine Institute expressly reserves the right to deviate from the contents of this publication.

All fees are subject to change without notice. Readers should check the Marine Institute Calendar and the Memorial University Calendar for regulations governing the program offerings, admissions and fees of the Marine Institute and Memorial University.
OTHER FACTORS TO CONSIDER

Students are responsible for other fees including health and dental, labs, student union, student services, campus renewal, recreation, work terms and costs associated with distance education courses. A full list of those fees are provided at www.mi.mun.ca/registration.

As a part of budgeting yearly expenses students should also consider expenses related to books, supplies and accommodations.

Students enrolled in another health/dental plan may opt out of the Marine Institute Student Union plan by visiting www.misuonline.ca

FINANCING

Students attending the Marine Institute are able to apply for various types of support. Each Canadian province offers students the ability to apply for student assistance.

NL students inquiring about this process should view the Student Aid website www.aesl.gov.nl.ca/studentaid

Non-NL Canadian students can visit www.canlearn.ca for information on the processes for their respective provinces.

Students who will be using educational grants and require help with documentation can contact the Office of the Registrar directly for assistance with our programs.
As a campus of Memorial University, students completing a program at the Marine Institute which can lead to a degree are eligible for all general Memorial entrance scholarships.

Memorial University offers its students many opportunities to receive scholarships and awards throughout their program of study, including a limited number of entrance scholarships available to incoming high school applicants. For more details, visit mun.ca/scholarships.

### RENEWABLE SCHOLARSHIPS

<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Warren and Catherine Ball Memorial Entrance Scholarship</strong> (limited number)</td>
<td>$30,000 ($7,500 x 4 years)</td>
</tr>
<tr>
<td>NL high school applicants who are Canadian citizens or permanent residents are automatically considered. No separate scholarship application required. <strong>A minimum final admission average of 90 per cent is required.</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Memorial University Alumni Entrance Scholarships</strong> (limited number)</td>
<td>$25,000 ($5,000 x 5 years)</td>
</tr>
<tr>
<td>This scholarship requires an application. NL high school applicants who are Canadian citizens or permanent residents should check with their guidance counselor for details. A separate scholarship application is required. <strong>A minimum final admission average of 90 per cent is required.</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dr. Leslie Harris Memorial University Alumni Association Scholarship</strong> (limited number)</td>
<td>$16,000 ($4,000 x 4 years)</td>
</tr>
<tr>
<td>This scholarship requires an application. NL high school applicants who are Canadian citizens or permanent residents should check with their guidance counselor for details. A separate scholarship application is required. <strong>A minimum final admission average of 90 per cent is required.</strong></td>
<td></td>
</tr>
<tr>
<td>NON-RENEWABLE SCHOLARSHIPS</td>
<td>VALUE</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>Memorial University Entrance Scholarship (limited number)</td>
<td>$2,550 or $1,275</td>
</tr>
<tr>
<td>High school applicants who are Canadian citizens or permanent residents are eligible based on admission average. Scholarships valued at $2,550 and $1,275 will be awarded as funding allows. No separate scholarship application required. A minimum final admission average of 90 per cent is required.</td>
<td></td>
</tr>
<tr>
<td>Marine Institute Entrance Scholarship* (limited number)</td>
<td>$1,000</td>
</tr>
<tr>
<td>High school applicants who are Canadian citizens or permanent residents are eligible based on final admission average; minimum 80 per cent required. Students are not eligible for both a Memorial University and Marine Institute Entrance Scholarship. No separate scholarship application required.</td>
<td></td>
</tr>
</tbody>
</table>

* The MI Scholarship Average is calculated using a Grade 12 English, Grade 12 Math, a laboratory science at the Grade 12 level, a Grade 12 social science or language and an elective course at the Grade 12 level.

While entrance scholarships are not currently available to international students, other scholarships are available once an international student is enrolled with the Marine Institute.

The Marine Institute campus has two scholarship ceremonies a year with a variety of scholarships and awards available to new and returning full-time students.

For details on specific scholarships, visit [www.mi.mun.ca/calendar/current/toc](http://www.mi.mun.ca/calendar/current/toc)
BECOME AN MI STUDENT

Become a Marine Institute student in four easy steps:

1 GET TO KNOW MI’S PROGRAMS AND REQUIREMENTS
   Visit www.mi.mun.ca/futurestudents for complete details and more info on requirements and student life.

2 APPLY FOR ADMISSION
   The earlier, the better! Applications are due April 15th (March 1st for international students), but applications for some programs will be considered after this date. Learn all the details at www.mi.mun.ca/apply

3 APPLY FOR HOUSING
   Looking for student residence? Apply early! Students can live in residences at Memorial University St. John’s campus, located 10 minutes away by bus or a 20 minute walk. Visit www.mun.ca/residences for on- and off-campus housing advice and details.

4 COME FOR A TOUR
   Arrange a personalized campus tour of our facilities and meet our staff and faculty. www.mi.mun.ca/reserveatour
ALREADY ACCEPTED?

Follow these steps to get you started on your way to a career of a lifetime:

1. Complete and submit your MEDICAL and other documents
   Does your program require a medical or other documents? Find more information about completing necessary documents under Admission Requirements of the MI Calendar.
   www.mi.mun.ca/medical

2. REGISTER for your courses
   MI Students can register for their courses through the Memorial University self-service website. Check out www.mi.mun.ca/registration for how to register.

3. Apply for STUDENT AID (if necessary)
   www.aesl.gov.nl.ca/studentaid

4. Secure your HOUSING
   View the Student Housing website:
   www.mun.ca/residences to view our residences.

5. Come to ORIENTATION
   Make sure to attend Orientation, it is a great way to start your studies at MI. It will provide you the opportunity to meet new friends, get to know your faculty and staff and learn about campus life.
   www.mi.mun.ca/orientation

6. Check for SCHOLARSHIPS
   MI has an expanding list of scholarships that can help you with your education.
   www.mi.mun.ca/calendar/current/toc

7. Get information on health and dental INSURANCE
   Already have an alternate health/dental plan? Information on how to opt out and deadlines can be found here.
   www.misuonline.ca

8. CONNECT with us:
   Facebook: MarineInstitute  Twitter: MarineInstitute
   Instagram: Marine.Institute  Youtube: MarineInstitutePR

Need more help? Just Ask! Call us at 1.800.563.5799, ext. 0380 or email admissions@mi.mun.ca or recruitment@mi.mun.ca
## HIGH SCHOOL EQUIVALENCIES CHART

For Diplomas of Technology, Technician Diplomas, Diplomas of Technology/Bachelor of Technology. For other program entrance requirements, visit www.mi.mun.ca/futurestudents

<table>
<thead>
<tr>
<th>PROVINCE/TERRITORY</th>
<th>ENGLISH</th>
<th>MATHEMATICS</th>
<th>LABORATORY SCIENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newfoundland and Labrador</td>
<td>English 3201</td>
<td>Math 3200</td>
<td>Biology 3201</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Math 3201</td>
<td>Chemistry 3202</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Earth Systems 3209</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Physics 3204</td>
</tr>
<tr>
<td>Nova Scotia</td>
<td>English 12</td>
<td>Math 12</td>
<td>Biology 12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Advanced Math 12</td>
<td>Chemistry 12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pre-Calculus 12</td>
<td>Geology 12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Calculus 12</td>
<td>Physics 12</td>
</tr>
<tr>
<td>New Brunswick</td>
<td>English 121</td>
<td>Foundations of Math 120</td>
<td>Biology 121/122</td>
</tr>
<tr>
<td></td>
<td>English 122</td>
<td>Pre-Calculus Math A/B 120</td>
<td>Chemistry 121/122</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Calculus 120</td>
<td>Physics 121/122</td>
</tr>
<tr>
<td>Prince Edward Island</td>
<td>English 621A</td>
<td>Foundations of Math 621A</td>
<td>Biology 621A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pre-Calculus 621B</td>
<td>Chemistry 621A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Calculus 611B</td>
<td>Physics 621A</td>
</tr>
<tr>
<td>Quebec</td>
<td>English Language Arts (536)</td>
<td>Technical and Scientific Math (506)</td>
<td>Chemistry (504)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Science Math (506)</td>
<td>Physics (504)</td>
</tr>
</tbody>
</table>
Applicants should have successfully completed the graduation requirements for high school, with a minimum overall average of 60% in mathematics, English and a laboratory science. Students completing academic level math require a minimum 60 per cent in that course.

Note: There may be other acceptable courses in addition to those listed below. Should you have questions concerning a specific course, please contact our Admissions Office directly at 709.778.0380.

<table>
<thead>
<tr>
<th>PROVINCE/TERRITORY</th>
<th>ENGLISH</th>
<th>MATHEMATICS</th>
<th>LABORATORY SCIENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ontario</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENG 4C</td>
<td>Technology (MCT) 4C</td>
<td>Biology 4U</td>
</tr>
<tr>
<td></td>
<td>ENG 4U</td>
<td>Advanced Functions (MHF) 4U</td>
<td>Chemistry 4C/4U</td>
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<tr>
<td></td>
<td>EAE 4U</td>
<td>Mathematics for College (MCT) 4C</td>
<td>Earth &amp; Space 4U</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Calculus &amp; Vectors (MCV) 4U</td>
<td>Physics 4C/4U</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Math of Data Management (MDM) 4U</td>
<td></td>
</tr>
<tr>
<td><strong>Manitoba</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Language Arts 40S</td>
<td>Applied Math 40S</td>
<td>Biology 40S</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pre-Calculus 40S</td>
<td>Chemistry 40S</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Physics 40S</td>
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<tr>
<td><strong>Saskatchewan</strong></td>
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<tr>
<td></td>
<td>English Language Arts 30A</td>
<td>Foundations of Math 30</td>
<td>Biology 30</td>
</tr>
<tr>
<td></td>
<td>English Language Arts 30B</td>
<td>Pre-Calculus Math 30</td>
<td>Chemistry 30</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Calculus 30</td>
<td>Earth Science 30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Physics 30</td>
</tr>
<tr>
<td><strong>Alberta, NWT &amp; Nunavut</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Language Arts 30-1</td>
<td>Math 30-1</td>
<td>Biology 30</td>
</tr>
<tr>
<td></td>
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<td>Math 30-2</td>
<td>Chemistry 30</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Math 31</td>
<td>Physics 30</td>
</tr>
<tr>
<td><strong>British Columbia &amp; Yukon</strong></td>
<td>English 12</td>
<td></td>
<td>Biology 12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Foundations of Math 12</td>
<td>Chemistry 12</td>
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<tr>
<td></td>
<td></td>
<td>Pre-Calculus 12</td>
<td>Geology 12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Calculus 12</td>
<td>Physics 12</td>
</tr>
</tbody>
</table>
INTERNATIONAL STUDENTS

International Student Services at the Marine Institute are provided jointly by MI International and Student Affairs. We also work closely with Memorial University’s Internationalization Office (IO) to ensure students have all the support necessary to succeed.

ADMISSION REQUIREMENTS

Admission requirements vary among programs. Generally, undergraduate programs require completion of high school/secondary school education, and graduate programs require completion of a postsecondary diploma/degree.

ENGLISH PROFICIENCY REQUIREMENTS

An adequate knowledge of written and spoken English is a pre-requisite to admission. This can be demonstrated by results of standardized English tests, such as the Test of English as a Foreign Language/TOEFL (min. 550 PBT, 213 CBT, 79 IBT) and the International English Language Testing Systems/IELTS - Academic (overall 6.5 plus band 6 in BOTH reading and writing). You can also choose to attend an English as a Second Language (ESL) program offered at Memorial University prior to studying at the Marine Institute: www.mun.ca/esl

For complete details regarding admission and language requirements, please visit: www.mi.mun.ca/calendar/current

APPLICATION PROCESS AND TIMELINE

*IMPORTANT NOTE for Transport Canada certification program applicants (Bridge Watch, Marine Diesel Mechanics, Marine Engineering or Nautical Science): Transport Canada only certifies Canadian citizens and permanent residents. International students completing these programs are required to write the certification examinations in their home countries. Prior to applying, please check with the maritime/ transportation authority at home regarding the certification process and to ensure the training at the Marine Institute is acceptable to them.
APPLY EARLY! For the general international student application process and timeline, visit: www.mi.mun.ca/futurestudents/internationalstudents/applicationprocessandtimeline/

Application deadlines vary among programs. International students should apply by MARCH 1 for September enrollment (applications usually open by mid-October the previous year). Degree programs (Bachelors, Masters and Doctorate) offer additional intakes (other than September).

FEES, SCHOLARSHIPS AND COST OF LIVING

Tuition costs vary by program. See a sample of first year international student tuition on p. 64. For more information regarding tuition and other school fees, please visit: www.mi.mun.ca/departments/officeoftheregistrar/programsandfees/

Academic based scholarships are available once international students are registered or enrolled. See p. 66 for further details.

Cost of living vary greatly depending on each person’s lifestyle. Our international students usually spend between CAD 15,000 and CAD 18,000 a year in living expenses (excluding tuition and other school fees).

ACCOMMODATIONS

Memorial University offers many on campus housing options, including dormitory and apartment style residences that are on transportation routes to the Marine Institute Campus. Apply early at www.mun.ca/residences! For off campus housing options, please visit www.mun.ca/residences/buildings/offcampushousing.php

For other important information regarding international students, please visit: www.mi.mun.ca/futurestudents/internationalstudents or contact internationalstu@mi.mun.ca.
MI is not just a place where you attend class. It’s a community where we believe in providing a well-balance experience for all of our students. www.mi.mun.ca

**Student Affairs:**
From academic to career advising, we have the people and support services to help you achieve personal and professional success while you attend the Marine Institute.

**Learning Resource Centre:**
Our instructors help students on an individual and small group basis in the areas of study skills, academic courses and writing at scheduled times throughout the semester.

**Office of Career Integrated Learning:**
Along with work term placement, services within the Office of Career Integrated Learning focus on career and work term preparation for students, employer engagement and graduate transitions for Marine Institute alumni.

**Accessibility Services:**
Our mission is to maximize academic development for students and promote inclusion among the members of the Marine Institute community. We coordinate programs and services for students by facilitating access to information, services and campus facilities.

**Dr. C. R. Barrett Library:**
The Dr. C. R. Barrett Library is a unique resource, housing one of Canada’s largest marine related collections, and is one of five libraries that make up the Memorial University Libraries system. The specialized collection supports study and research in fisheries and aquaculture, marine technologies, nautical science and the ocean environment.

**MI Student Union:**
The Marine Institute Students’ Union (MISU) represents the needs and concerns of our students and provide members with a variety of services including a health and dental plan.

**Counselling, Health and Wellness:**
The Counselling Centre, Student Health Services, Wellness Program, are all located in the University Centre on the St. John’s campus. Various medical services are also available throughout the city.

**Recreation and Fitness:**
Varsity and intramural athletic programs are available at the Marine Institute, as are fitness assessments, classes and individual programs. MI Students are also eligible to use The Works facility on the university’s St. John’s campus.
By Air:
The St. John’s International Airport (YYT) is only minutes away from the MI Campus.
The Deer Lake Airport (YDF) is just over one hour drive from Marine Institute’s Safety and Emergency Response Training (SERT) Centre in Stephenville.

By Sea:
Marine Atlantic operates a year-round ferry service between North Sydney, Nova Scotia and Channel-Port aux Basques, and a summer service between North Sydney and Argentia.

HOW TO GET HERE

Come join us on Canada’s east coast. Tour our campus, visit with our people and find yourself in the middle of the MI world.