

## What's Next?

# Marine Engineering

Bachelor of Engineering  
in Marine Engineering



### Core Skills

#### Transferable Skills

- Problem-solving & decision-making
- Communication – verbal & written
- Flexibility & adaptability
- Teamwork & leadership
- Self-discipline & motivation
- Logical/Practical Thinker



#### Degree-specific Skills

- Physics for Marine Engineers
- Technical maths
- Technical drawing
- Naval Architecture principles
- Technical problem-solving
- Mechanical/Electrical systems
- Radio Communications & Navigation

## Career Options



Graduates first become **Officer of the Watch** on a vessel after graduating and passing relevant examinations. They can advance to Second Engineer or Chief Engineer with further study, examinations, and sea-service. Careers exist on all different type of ocean going vessels: bulk carriers, oil tankers, container ships, cruise ships, and ferry vessels.

#### Potential Areas of Employment

Ship's Officer (from Junior Ranks to Chief Engineer)  
Marine Superintendent  
Power Plant Engineers  
Marine Consultants/Surveyors

Career prospects are good with shipping companies and there are also opportunities in a range of shore-based industries.

Graduates, after time at sea and acquiring additional skills/qualifications, can apply for positions in chemical and process plants, refineries, hospitals and utility in companies. Other careers include surveying and roles in public sector organisations such as the Naval Service, Department of the Marine and the Department of Transport.

Other sectors to consider where your skills are valued include Army, Gardai, Air Corps, Coast Guard, Security, Fire Service, Probation Officer, Aqua Culture, Irish Naval Service.

A Marine Engineer will be responsible for the operation and maintenance of engines, boilers, generators and other systems of ships as well as most of the mechanical equipment aboard ship. On completion of the Level 7 Degree you will have completed work placement at sea for a minimum of 9 months in a 14 month period and you will have a sound base of both knowledge and practical experience.

**Internships:** Some ashore positions such as **Shipping or Maritime Executive** are available in the maritime industry. Several maritime internship opportunities are available and can pave the way to develop an ashore career. Organisations such as **Clarksons, the European Maritime Agency** and **BP** offer internships. For details, check; [www.maritimecareers.ie/onshore-careers/index](http://www.maritimecareers.ie/onshore-careers/index)

### Employers



Prepare to spend a career at sea unless you undergo further training which will allow you to work ashore. Check out [www.maritimecareers.ie](http://www.maritimecareers.ie); [www.seacareers.co.uk](http://www.seacareers.co.uk) [www.trinityhousetraining.org](http://www.trinityhousetraining.org) and [www.clicandsea.co.uk](http://www.clicandsea.co.uk) for ideas about sea-going careers.

Global employers such as **Clarksons shipping broker and provider of integrated shipping services, research and intelligence** is a leading employer as is the European Maritime Agency. A wide range of companies seek the skills of a Marine Engineer, including examples such as **Arklow shipping, BW Fleet Management, Carnival UK, Cenex, Chevron Shipping, Irish Naval Service,**

Ocean Crest Marine, P&O Maritime, Princess Cruises and private yachts.

Land based employers can include engineering roles in Hospitals, Hotels, Powerstations, Pharmaceutical Companies, Petrochemical Companies, Port Security, Port Engineer, Technical Services Advisor ([www.maritimejobs.com](http://www.maritimejobs.com)).

**Employers may include;**

- Irish Ferries; [www.irishferries.com](http://www.irishferries.com)
- Arklow Shipping; [www.asl.ie](http://www.asl.ie) – shorter trips & more variety in the work
- Irish Mainport Holdings; [www.mainport.ie](http://www.mainport.ie)
- The Irish Navy careers web pages; [http://www.military.ie/careers/navy\\_recruits.htm](http://www.military.ie/careers/navy_recruits.htm)
- Irish Fisheries Board careers web pages; <http://www.bim.ie/marine/careers.htm>
- The British Chamber of Shipping Careers website; [www.gotosea.org](http://www.gotosea.org)
- The Nautical Campus; [www.nauticalcampus.org](http://www.nauticalcampus.org)
- Shell Recruitment; [www.ssmrecruitment@shell.com](mailto:www.ssmrecruitment@shell.com) or download an application form at [www.shell.com/shipping/careers](http://www.shell.com/shipping/careers)



## Where are NMCI graduates working?

### Company

- Dept of Defence
- Hatch Engineering
- GE Healthcare
- Boston Scientific
- South Coast
- Unilever
- Boston Scientific
- Arklow Shipping
- Irish Lights

### Job Role

- Chief Petty Officer, Irish Naval Service
- Supply Chain Manager
- Technical Services Manager
- Snr Manager Global Operations Strategy
- Depo Manager
- Operations Leader
- Buyer Planner
- Second Officer
- Seafarer

## Professional Groups & Associations



### Government Agencies and Professional Bodies include:

- Irish Maritime Development Office [www.imdo.ie](http://www.imdo.ie)
- Commissioners of Irish Lights [www.cil.ie](http://www.cil.ie)
- Marine Institute [www.marine.ie](http://www.marine.ie)
- Department of Communications, Marine and Natural Resources [www.dcmnr.ie](http://www.dcmnr.ie)
- Irish Institute of Master Mariners [www.mastermariners.com](http://www.mastermariners.com)
- International Federation of Shipmasters Association: [www.ifsma.org](http://www.ifsma.org)
- The Irish Maritime Development Office (IMDO, Ireland): [www.imdo.ie](http://www.imdo.ie)



## Starting Your Job Search

Job search takes focus, effort and commitment. It's essential that you know what parts of the job motivates you and matches your skills and interests and to seek roles that will be a good match.

An ideal starting point is to look for Alumni (former graduates of your college/course). You should also look up companies/industries you want to target. Aim to find employees in roles you are aiming for yourself, take a look back at their career journey. Consider LinkedIn or traditional methods to 'follow' people who are where you want to go! Make connections! Don't wait for jobs to be advertised, actively look for roles that interest you.

Graduate programmes are a great career starting point as extra training is provided. A Level 8 degree is the minimum for entry to most programmes. Register with GradIreland: <https://gradireland.com/user>

- The British Merchant Navy Training Board: [www.mntb.org](http://www.mntb.org)
- The British Marine Society: [www.marine-society.org](http://www.marine-society.org)
- International Shipping Federation: [www.careers-at-sea.org](http://www.careers-at-sea.org)
- The Nautical Institute: [www.nautinst.org](http://www.nautinst.org)
- The Irish Navy website
- Irish Fisheries Board
- Dept of Transport



## Postgraduate Study

On completion of the Bachelor in Marine Engineering, graduates spend one year at sea to complete their cadetship. Career progression is determined by employment experience, further study and professional examinations. Progression routes are usually incremental so they build on experience.

There are opportunities for further study in order that cadets will progress from the Officer of The Watch level on to the Second Engineer Officer Certificate of Competency and in due course to the Chief Engineer Officer Certificate of Competency with the combination of Sea Service, further study and examinations.

Check out [www.nmci.ie](http://www.nmci.ie) and [www.cit.ie](http://www.cit.ie) for further details of complementary studies for progression to more senior roles. See [www.careersatsea.org](http://www.careersatsea.org) for more information. For further Undergraduate & Postgraduate courses see Liverpool Maritime Academy (Lairdside Maritime Centre) [www.lairdside-maritime.com](http://www.lairdside-maritime.com) and Marine Society – [www.marine-society.org](http://www.marine-society.org)



## Going Abroad

### International Maritime Employment Sites

Spinnaker Recruitment - Dedicated web site for Jobs in Shipping; [www.shippingjobs.com](http://www.shippingjobs.com)

Faststream Recruitment; <http://www.faststream.co.uk/default.aspx>

TradeWinds Jobs; [http://www.tradewinds.no/jobs\\_tw/search.htm](http://www.tradewinds.no/jobs_tw/search.htm)

Lloyds List Careers; <http://www.lloydslist.com/ll/careers/index.htm>

Clyde Marine Recruitment; [http://www.theclydegroupp.com/jobs/cmr\\_vacancies.asp](http://www.theclydegroupp.com/jobs/cmr_vacancies.asp)

ShipTalk; [www.first4marinejobs.com](http://www.first4marinejobs.com)  
[www.shiptalkjobs.com](http://www.shiptalkjobs.com); [www.halcyonrecruitment.com/Halcyon/index.asp](http://www.halcyonrecruitment.com/Halcyon/index.asp)

Nautilus – Database of employers

### National Recruitment Sites

[www.celticareers.com](http://www.celticareers.com), [www.hrm.ie](http://www.hrm.ie), [www.irishjobs.ie](http://www.irishjobs.ie), <http://www.circle.ie/default.aspx>, [www.cvprofessionals.co.uk](http://www.cvprofessionals.co.uk) – Merchant Navy CV & Resume Specialists, [www.shipping-connections.com/vacancies.htm](http://www.shipping-connections.com/vacancies.htm), [www.sstg.org](http://www.sstg.org) – Merchant Navy Careers

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