

MARINE ENGINEER

A marine engineer is responsible for the operation, maintenance and repair of all major equipment onboard a ship. They work with naval architects to design and build everything from small yachts and fishing boats to submarines and aircraft carriers.

PERSONAL COMPETENCIES

- You enjoy Science and Maths
- You like help people solve their problems
- You like working with numbers
- You have an analytical mind and can think critically



SCHOLARSHIPS

- Merit-cum-Means based Scholarship - About 20,000 such engineering scholarships are awarded by the Ministry of Minority Affairs every year. The full course fees of awardees is directly paid to their institutions under this scheme.*
 - Indian Oil Educational Scholarship- The IOC Ltd offers 300 scholarships every year to eligible students. Students need to be enrolled in an undergraduate course. The scholarship particularly focuses on students with physical disabilities, women and students from North East and J&K.*
 - "Ishan Uday" Special Scholarship Scheme - For promoting higher education and for encouraging children belonging to economically weaker section of the NE region, the UGC has launched "Ishan Uday" Special Scholarship Scheme for North Eastern Region students.
 - Visit www.scholarships.gov.in the National Scholarship Portal. Under this portal there are other central government schemes offered by different departments, UGC/AICTE Schemes and State Schemes.*
 - Visit www.buddy4study.com a gateway to scholarships starting from Class XI.*
 - Scholarships are also available in institutes based on merit*
- *(Availability of these scholarships vary from time to time)

LOANS

- VidyaLakshmi, www.vidyalakshmi.co.in, is a portal for students seeking education loan. This portal has been developed under the guidance of the Department of Financial Services, (Ministry of Finance), Department of Higher Education (Ministry of Human Resource Development) and Indian Banks Association (IBA). Students can view, apply and track the education loan applications on the website.
- Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.
- All banks give education loans.



The approx. course fee ranges between **INR 15,000 to 15,00,000*** for the full course.

*(The above mentioned figures are approximate numbers. This will vary from Institute to Institute)

ENTRY PATHWAY

1. Complete 10+2 in the Science stream (Physics, Chemistry and Mathematics)
 2. Complete Bachelor's degree (B.E./B.Tech) in Marine Engineering/Naval Architecture and Ship Building/ Naval Architecture and Ocean Engineering
- OR**
- Complete Bachelor's degree, followed by a Master's degree in the same field
- OR**
- Complete Bachelor's degree and pursue a Diploma in Marine Engineering

For admissions, you must qualify entrance examination conducted at national level (JEE Main, JEE Advanced etc.) or state level (WBJEE, AP EAMCET etc.) or institute level (VET, IP etc.)

Please check the duration of the course during enrolment



EXPECTED INCOME

The figures are indicative & subject to change

The approx. salary of a Marine Engineer ranges between **INR 12,500 - 3,33,400*** per month.

Source: https://www.payscale.com/research/IN/Job=Marine_Engineer/Salary

WHERE WILL YOU WORK

Places of Work: You are likely to work on all kinds of ships such as ferries, cargo ships, and hovercrafts, cruise liners, military vessels, submarines and so on.

Work Environment: You will work in shifts, which are likely to be of 8 to 12 hours, for 5 to 6 days per week. However, you have to remain alert throughout the day. Your work may involve some amount of traveling.

Opportunities for differently abled exist in this field

EXPECTED GROWTH PATH



Trainee or Junior Engineer → Fifth Engineer
→ Fourth Engineer → Third engineer →
Second Engineer → Chief Engineer →
Technical lead → Technical
Manager/Superintendent

WHERE WILL YOU STUDY?

The course is offered by the Department of Marine Engineering.
The list of institutes is indicative only

GOVERNMENT INSTITUTES

1. The Institutions of Engineers India, Kolkata
2. Marine Engineering and Research Institute, Kolkata
3. Indian Maritime University, Mumbai Port Campus
4. Indian Maritime University, Chennai
5. Indian Maritime University, Kolkata
6. Perunthalaivar Kamarajar Institute of Engineering and Technology, Karaikal
7. Indian Maritime University, Vishakhapatnam
8. College of Engineering, Anna University, Chennai

PRIVATE INSTITUTES

(Please check if institute is affiliated and accredited with UGC and AICTE before applying)

1. Vels University Chennai - Vel's Institute of Science Technology and Advanced Studies
2. CV Raman Global University, Bhubaneswar
3. School of Engineering Cochin University of Science and Technology
4. Sri Venkateswara College of Engineering, Tamil Nadu
5. Srinivas Institute of Technology, Mangalore
6. Mohamed Sathak Engineering College, Kilakarai
7. Coimbatore Marine College, Coimbatore
8. Samundra Institute of Maritime Studies, Pune

Information on the institute rankings can be found at - <https://www.meritnation.com/2022/Ranking.html>

ONLINE COURSE

- Udemy - <https://www.udemy.com/course/marine-engineering-knowledge/>

EXAMPLE FROM THE FIELD



Sonali Banerjee is India's first woman maritime engineer. She pursued a B.E. in Marine Engineering at Kolkata's Taratala-based Marine Engineering Research Institute (MERI). She was later selected by Mobil Shipping Co. for a gruelling six-month pre-sea course. This hands-on training took her to ports in Singapore, Sri Lanka, Thailand, Hong Kong, Fiji and Australia. On August 26, 2001, Sonali made history when she boarded a Mobil Shipping Co. vessel and officially became the first Indian woman to take charge of a ship's machine room.*

Source:

<https://www.thebetterindia.com/157195/india-first-woman-maritime-officer-sonali-banerjee-news>

**The above information is for training purposes only and will not be used for any commercial gains.*

Search keywords...



marine engineer, naval architect, technical officer