



SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट · CAREER SHEET

मरीन इंजीनियरिंग

Marine engineers operate and maintain ship engines, machinery and technical systems. From cargo ships to cruise liners and submarines, they keep the world moving at sea.



Scan for everything on this career

Salary, exams, colleges, the routes in and the steps after — all on the portal.

career.gsssjethantri.in/#/career/eng-4676

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श्री चेनाराम चौधरी

प्रधानाचार्य, डाइट बाड़मेर
Principal, DIET Barmer



श्रीमती संघमित्रा

वरिष्ठ व्याख्याता, डाइट बाड़मेर (सहयोग)
Sr. Lecturer, DIET Barmer (Support)



भरत चौधरी

अभिकल्पना व विकास · व्याख्याता (इतिहास)
Designed & developed · Lecturer (History)

विशेष धन्यवाद · SPECIAL THANKS



सुरेन्द्र सिंह राठौड़

व्याख्याता (इतिहास) · रा.उ.मा.वि. कानाना



सुरेश कुमार सैन

व्याख्याता (भूगोल) · रा.उ.मा.वि. रामसीन मूंगड़ा



वनिता कुमारी

व्याख्याता (इतिहास) · रा.उ.मा.वि. रामसीन मूंगड़ा



कमलेश चौधरी

व्याख्याता (राजनीति विज्ञान) · रा.उ.मा.वि. टापरा

करियर मार्गदर्शन कार्यशाला, डाइट बाड़मेर (14-17 जुलाई 2026) में विकसित व लोकार्पित
Developed & unveiled at the Career Guidance Workshop, DIET Barmer (14-17 July 2026)

यह एक स्वतंत्र परियोजना है, जो सरकार की आधिकारिक करियर-मार्गदर्शन सामग्री पर आधारित है। · An independent project based on the Government's official career-guidance content.

1 About this career

Marine engineers operate and maintain ship engines, machinery and technical systems. From cargo ships to cruise liners and submarines, they keep the world moving at sea.

2 At a glance

Minimum qualification	12th PCM + B.Tech in marine engineering
Work mode	Months of duty on ship, then long leave
Demand	Steady - Indian officers valued in global shipping
Top earning	Chief engineer: Rs 4-6 lakh/month (often tax-free)

3 What you need

INTERESTS

- Interest in machines and engines
- Hands-on problem solving
- Attraction to the sea and travel

ABILITIES

- Physical and mental toughness
- Calm decisions under pressure
- Analytical mind

KEY SKILLS

- Knowledge of diesel engines and machinery
- Safety and firefighting procedures
- Teamwork and leadership
- Electrical and refrigeration systems
- Repair and maintenance
- English communication (international crews)

4 How to get there

- 1 Pass 10+2 with Physics, Chemistry, Maths (60%+).
- 2 Take IMU CET or an exam like JEE.
- 3 Do a 4-year B.Tech in marine engineering.
- 4 Pass medical fitness and eyesight tests.
- 5 Join a shipping company as junior engineer.
- 6 Clear DG Shipping CoC exams to rise in rank.

MAIN EXAMS

- IMU CET
- JEE Main
- CoC (Certificate of Competency) exams

5 Where to study

GOVERNMENT INSTITUTES

- Indian Maritime University (Chennai/Mumbai/Kolkata campuses) — Chennai/Mumbai/Kolkata (<https://www.imu.edu.in>)
- Marine Engineering & Research Institute (IMU Kolkata) — Kolkata, West Bengal

PRIVATE INSTITUTES

- Tolani Maritime Institute — Pune, Maharashtra
- AMET University — Chennai, Tamil Nadu
- Coimbatore Marine College — Coimbatore, Tamil Nadu

FEES

Full course about Rs 3-15 lakh; lower at government campuses, higher at private ones. Choose only DG Shipping-approved institutes.

SCHOLARSHIPS

- National Scholarship Portal (<https://scholarships.gov.in>)
- Vidya Lakshmi Education Loan Portal (<https://www.vidyalakshmi.co.in>)
- Buddy4Study (<https://www.buddy4study.com>)

6 What the work is like

WHERE YOU WORK

Cargo ships, tankers, cruise liners, naval vessels and submarines; later shore roles at ports and shipyards.

WORK CULTURE

8-12 hour shifts on board, 4-6 month contracts followed by long leave. Engine rooms can be hot and noisy.

WHO HIRES

- Shipping Corporation of India
- Anglo-Eastern / Wallem (ship management)
- Cochin Shipyard / Mazagon Dock
- Maersk / MSC (foreign shipping lines)
- Indian Navy / Coast Guard
- Ports and classification societies

DEMAND (2026)

90% of world trade moves by sea and Indian marine officers are in demand globally; green shipping is creating new skill opportunities in 2026.

7 Career growth

- 1 Junior/Fifth Engineer
- 2 Fourth Engineer
- 3 Third Engineer
- 4 Second Engineer
- 5 Chief Engineer
- 6 Technical Superintendent (shore)

EARNINGS

Starting	₹30,000-60,000
Mid level	₹1,50,000-3,00,000
Senior level	₹4,00,000-6,00,000+

Monthly pay; earned in foreign currency at sea and often tax-free. 2026 levels, indicative.

8 The good parts · The challenges

The good parts

- Very high, fast-growing pay
- Chance to travel the world
- Several months of leave each year

The challenges

- Months away from family
- Tough engine-room environment
- Risks at sea and limited internet

9 Real-life journeys

Sonali Banerjee

India's first woman marine engineer

The only woman among 1,500 cadets at MERI Kolkata, Sonali became in 2001 the first Indian woman to take charge of a ship's engine room.

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

Jagadhees Thirumoorthy

Marine Engineer, Merchant Navy

The first from his hometown to choose marine engineering, Jagadhees started as a junior engineer in 2011, cleared the tough CoC exam and has sailed to over 20 countries.

The Interview Portal · <https://theinterviewportal.com/2018/07/05/marine-engineer-merchant-navy-professional-interview/>

10 Sources & further reading

1. Rajasthan Career Guidance: Marine Engineering — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%ae%e0%a4%b0%e0%a5%80%e0%a4%a8-%e0%a4%87%e0%a4%82%e0%a4%9c%e0%a5%80%e0%a4%a8%e0%a4%bf%e0%a4%af%e0%a4%b0%e0%a4%bf%e0%a4%82%e0%a4%97-marine-engineering/>
2. Directorate General of Shipping — <https://www.dgshipping.gov.in>
3. Indian Maritime University (IMU) — <https://www.imu.edu.in>
4. National Career Service (NCS) — <https://www.ncs.gov.in>



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