



SAARTHI • सारथी

करियर मार्गदर्शन पोर्टल • Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट • CAREER SHEET

सैन्य इंजीनियरिंग सेवाएं

Engineers in military engineering services build and maintain roads, bridges, airstrips, buildings and defence infrastructure for the Army, Navy and Air Force. It uniquely combines national service with engineering.



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-4684

राजकीय उच्च माध्यमिक विद्यालय, जेठन्तरी

Govt. Sr. Sec. School, Jethantri • ब्लॉक समदड़ी • बालोतरा (Block Samdari • Balotra)

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सुशील कुमार शर्मा

प्रधानाचार्य, रा.उ.मा.वि. जेठन्तरी • मास्टर ट्रेनर
Principal, GSSS Jethantri • Master Trainer



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

Engineers in military engineering services build and maintain roads, bridges, airstrips, buildings and defence infrastructure for the Army, Navy and Air Force. It uniquely combines national service with engineering.

2 At a glance

Minimum qualification	Engineering degree (B.Tech/BE)
Work mode	Field + office; transferable job
Demand	Steady — big government spend on border infrastructure
Top earning	₹2,50,000+ per month (senior officers)

3 What you need

INTERESTS

- Passion for serving the nation
- Disciplined, organised lifestyle
- Building and construction work

ABILITIES

- Proficiency in maths and technical subjects
- Leadership and solving team problems
- Physical and mental toughness

KEY SKILLS

- Civil/Electrical/Mechanical engineering
- Planning and execution in tough terrain
- Budget and contract management
- Construction management and surveying
- Leadership and discipline
- Quick decisions in emergencies

4 How to get there

- 1 Take Science (PCM) after Class 10 and pass Class 12
- 2 Complete engineering from a recognised college via JEE/REAP
- 3 Enter the Army via TGC/SSC Tech (SSB interview)
- 4 Or take CDS/AFCAT for Army, Navy, Air Force
- 5 Or join services like MES via UPSC ESE
- 6 On selection, complete training at a military academy

MAIN EXAMS

- JEE Main/REAP (engineering admission)
- CDS (UPSC)
- AFCAT (Air Force)
- TGC and SSC Tech (SSB)
- UPSC Engineering Services Exam (ESE)

5 Where to study

GOVERNMENT INSTITUTES

- MNIT Jaipur — Jaipur, Rajasthan (<https://mnit.ac.in>)
- Rajasthan Technical University (RTU) — Kota, Rajasthan (<https://rtu.ac.in>)
- IITs/NITs (any recognised engineering college) — India (<https://www.iitsystem.ac.in>)
- College of Military Engineering (post-selection training) — Pune, Maharashtra
- Officers Training Academy — Chennai, Tamil Nadu

PRIVATE INSTITUTES

- Manipal University Jaipur — Jaipur, Rajasthan (<https://jaipur.manipal.edu>)
- BITS Pilani — Pilani, Rajasthan (<https://www.bits-pilani.ac.in>)

ONLINE

- NPTEL (Engineering fundamentals) — Online (<https://nptel.ac.in>)

FEES

Engineering fees are about ₹5,000-1,00,000 per year in government colleges; military training after selection is free with a stipend.

SCHOLARSHIPS

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

6 What the work is like

WHERE YOU WORK

Army, Navy, Air Force, Military Engineer Services (MES), Border Roads Organisation (BRO), DRDO.

WORK CULTURE

Environment varies by wing; 8-12 hour days and transfers across India. Challenging yet proud service in tough terrain. Some roles offer opportunities for persons with disabilities.

WHO HIRES

- | | |
|------------------------------------|------------------------------------|
| • Indian Army (Corps of Engineers) | • Military Engineer Services (MES) |
| • Border Roads Organisation (BRO) | • Indian Navy and Air Force |
| • DRDO | • Central Public Works Department |

DEMAND (2026)

Record investment in border roads, tunnels and defence infrastructure has made military engineers even more crucial in 2026; entry routes are open to women as well.

7 Career growth

- 1 Lieutenant/Assistant Garrison Engineer
- 2 Captain-Major/Garrison Engineer
- 3 Lt Colonel-Colonel/Commander Works Engineer
- 4 Brigadier/Zonal Chief Engineer
- 5 Major General and above/Engineer-in-Chief

EARNINGS

Starting	₹56,100-90,000
Mid level	₹1,00,000-1,80,000
Senior level	₹2,00,000-2,50,000+

Military pay starts at Pay Level 10; military service pay, allowances, housing and pension are extra. Figures are monthly.

8 The good parts · The challenges

The good parts

- Pride of national service and social respect
- Assured pay, allowances and pension
- Free training and lifelong skills

The challenges

- Tough selection and physical standards
- Frequent transfers, time away from family
- Risky postings in difficult terrain

9 Real-life journeys

Lt Gen Gautam Banerjee

Retired Lieutenant General, Corps of Engineers

Commissioned into the Corps of Engineers in 1971, Gautam Banerjee became Chief Engineer of Western Army Command and Chief of Staff of Central Command. Decorated with PVSM, AVSM and YSM, he now writes on defence strategy.

Vivekananda International Foundation · <https://www.vifindia.org/author/lt-gen-ret-d-gautam-banerjee>

Vaishali Hiwase

First woman Officer Commanding, Border Roads Organisation

Vaishali Hiwase from Wardha, Maharashtra, joined the Border Roads Organisation after engineering and M.Tech. After serving in Kargil, she became the first woman officer to command a road construction company on an India-China border road.

SSBCrackExams · <https://ssbcrackexams.com/meet-vaishali-hiwase-first-woman-to-be-appointed-as-commanding-officer-in-the-border-roads-organisation/>

10 Sources & further reading

1. Rajasthan Career Guidance Portal — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%b8%e0%a5%88%e0%a4%a8%e0%a5%8d%e0%a4%af-%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-%e0%a4%b8%e0%a5%87%e0%a4%b5%e0%a4%be%e0%a4%8f%e0%a4%82/>
2. Military Engineer Services (MES) — <https://mes.gov.in>
3. Union Public Service Commission (UPSC) — <https://upsc.gov.in>
4. National Career Service (NCS) — <https://www.ncs.gov.in>



And 770+ more careers — the whole portal

Interest and aptitude tests, government jobs, skill courses and a CV builder — free, no login, and it works offline.

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