



SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट · CAREER SHEET

पेट्रोलियम इंजीनियर

Petroleum Engineers work on finding, extracting and refining oil and natural gas from beneath the earth.

Rajasthan's Barmer oilfields and the Pachpadra refinery make this career special for the state.



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-4638

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

Petroleum Engineers work on finding, extracting and refining oil and natural gas from beneath the earth. Rajasthan's Barmer oilfields and the Pachpadra refinery make this career special for the state.

2 At a glance

Minimum qualification	B.E./B.Tech or diploma in Petroleum/Chemical Engineering
Work mode	Field, rig and plant work; shifts and travel are common
Demand	Barmer oilfields and the new refinery are adding jobs in Rajasthan
Top earning	₹3 lakh+ per month at senior level

3 What you need

INTERESTS

- Assembling machines and parts
- Working outdoors in the field
- Doing experiments

ABILITIES

- Strong grasp of maths and science
- Ability to work in tough conditions
- Problem solving and analysis

KEY SKILLS

- Knowledge of drilling and reservoir engineering
- Production and refining processes
- Simulation software and data analysis
- Basics of geology and rock formations
- Following HSE safety standards
- Teamwork and field communication

4 How to get there

- 1 Complete Class 12 in Science (Physics, Chemistry, Maths)
- 2 Do B.Tech in Petroleum or Chemical Engineering via JEE Main/REAP
- 3 Or take a polytechnic diploma in Petroleum after Class 10/12
- 4 Apply for internships at companies like ONGC and Cairn
- 5 Clear GATE for PSU jobs or M.Tech

MAIN EXAMS

- JEE Main/JEE Advanced
- REAP (Rajasthan engineering admission)
- GATE (for PSU recruitment and M.Tech)

5 Where to study

GOVERNMENT INSTITUTES

- MBM University (Petroleum Engineering) — Jodhpur, Rajasthan (<https://www.mbm.ac.in>)
- Govt Polytechnic College (Diploma) — Jodhpur, Rajasthan
- IIT (ISM) Dhanbad — Dhanbad, Jharkhand
- Rajiv Gandhi Institute of Petroleum Technology — Amethi, Uttar Pradesh
- Indian Institute of Petroleum and Energy — Visakhapatnam, Andhra Pradesh

PRIVATE INSTITUTES

- UPES School of Engineering — Dehradun, Uttarakhand
- Manipal University Jaipur (Chemical) — Jaipur, Rajasthan
- NIMS University — Jaipur, Rajasthan

ONLINE

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

FEES

Full course costs about ₹15,000 to ₹2 lakh in government institutes; up to ₹15 lakh in private ones.

SCHOLARSHIPS

- National Scholarship Portal (<https://scholarships.gov.in>)

- Rajasthan SJE Scholarships (<https://sje.rajasthan.gov.in>)
- Vidya Lakshmi Education Loan Portal (<https://www.vidyalakshmi.co.in>)

6 What the work is like

WHERE YOU WORK

Onshore/offshore oil and gas fields, refineries, drilling rigs, research centres; active projects in the Barmer-Jaisalmer belt.

WORK CULTURE

5-6 days a week, 8-9 hours; shift and rotation duty on rigs; travel is common; opportunities exist for persons with disabilities.

WHO HIRES

- ONGC
- Cairn (Vedanta), Barmer
- IOCL/BPCL/Reliance
- Oil India Limited
- HPCL Rajasthan Refinery, Pachpadra
- Service companies like Schlumberger/Halliburton

DEMAND (2026)

In 2026 demand is strong in Rajasthan due to India's energy needs, Barmer oilfield expansion and the commissioning of the Pachpadra refinery.

7 Career growth

- 1 Graduate Trainee Engineer
- 2 Petroleum Engineer
- 3 Senior Engineer
- 4 Chief Engineer/General Manager

EARNINGS

Starting	₹30,000-50,000
Mid level	₹70,000-1,50,000
Senior level	₹2,00,000-3,50,000

PSUs and global service companies pay more; rig allowances are extra.

8 The good parts · The challenges

The good parts

- Among the highest-paying engineering fields
- Major projects available within Rajasthan
- Good opportunities to work abroad

The challenges

- Tough life at remote fields and rigs
- Jobs are affected by oil price cycles
- Limited seats and specialised colleges

9 Real-life journeys

Sanchita Banerjee

First woman engineer of Oil India Limited

After engineering in Kolkata she joined Oil India as a shift engineer in 1985, ran LPG plants and rose to Executive Director.

India 5000 Women Achiever Awards · <https://india5000.com/winners/2020/india-5000-women-achiever-awards-2021/sanchita-banerjee>

Pritish Nath

Assistant Executive Engineer, ONGC

Raised in a mud house in Odisha, he failed 12 interviews before clearing GATE and becoming an ONGC engineer - a model of persistence.

Unstop · <https://unstop.com/blog/pritish-nath-ongc-engineer>

10 Sources & further reading

1. Rajasthan Career Guidance Portal — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%aa%e0%a5%87%e0%a4%9f%e0%a5%8d%e0%a4%b0%e0%a5%8b%e0%a4%b2%e0%a4%bf%e0%a4%af%e0%a4%ae-%e0%a4%87%e0%a4%82%e0%a4%9c%e0%a5%80%e0%a4%a8%e0%a4%bf%e0%a4%af%e0%a4%b0-petroleum-engineer/>
2. National Career Service — <https://www.ncs.gov.in>
3. AICTE — <https://www.aicte-india.org>
4. NPTEL courses — <https://nptel.ac.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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