



SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट · CAREER SHEET

औद्योगिक इंजीनियर

An Industrial Engineer arranges people, machines, materials and time in factories and organisations so that production is faster, cheaper and better. They improve processes, quality and efficiency. It is a career that blends...



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-4622

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

An Industrial Engineer arranges people, machines, materials and time in factories and organisations so that production is faster, cheaper and better. They improve processes, quality and efficiency. It is a career that blends science, maths and management.

2 At a glance

Minimum qualification	B.Tech in Industrial/Manufacturing Engg
Work mode	Factory + office, 8-9 hrs, shifts
Demand	Rising — Make in India & automation
Top earning	₹1,50,000+/month

3 What you need

INTERESTS

- Curiosity about how things work
- Working with machines and systems
- Interest in science and maths

ABILITIES

- Analytical, logical thinking
- Problem-solving and team leadership
- Planning and organising skills

KEY SKILLS

- Process and operations optimisation
- Supply chain and logistics
- Production planning and cost control
- Quality and Lean/Six Sigma
- Data analysis and statistics
- Project and team management

4 How to get there

- 1 Pass 10+2 with science (Physics, Chemistry, Maths).
- 2 Do a B.Tech/B.E. in Industrial/Manufacturing Engineering.
- 3 Clear an entrance test (JEE Main/REAP etc.).
- 4 Gain experience through internships and factory training.
- 5 Start as a junior industrial engineer/technician.
- 6 With experience and a master's/MBA, move to management roles.

MAIN EXAMS

- JEE Main / REAP (bachelor's entry)
- GATE (master's and PSU jobs)

5 Where to study

GOVERNMENT INSTITUTES

- मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान (MNIT) — Jaipur, Rajasthan
- राजस्थान तकनीकी विश्वविद्यालय (RTU) व संबद्ध कॉलेज — Kota, Rajasthan
- आई.आई.टी. खड़गपुर / आई.आई.टी. बॉम्बे — W. Bengal / Maharashtra
- दिल्ली प्रौद्योगिकी विश्वविद्यालय (DTU) — New Delhi

PRIVATE INSTITUTES

- मणिपाल प्रौद्योगिकी संस्थान — Manipal, Karnataka
- वेल्लोर प्रौद्योगिकी संस्थान (VIT) — Vellore, Tamil Nadu
- आई.टी.एम. यूनिवर्सिटी — Gwalior, Madhya Pradesh

ONLINE

- SWAYAM/NPTEL (औद्योगिक इंजीनियरिंग) — Online (<https://swayam.gov.in>)
- Coursera (Industrial Engineering) — Online (<https://www.coursera.org>)

FEES

About ₹50,000-2,50,000/year in government institutes and ₹1,50,000-5,00,000/year in private ones; distance options like IGNOU are cheaper.

SCHOLARSHIPS

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

6 What the work is like

WHERE YOU WORK

Manufacturing and automobile companies, steel and power firms, oil and gas, infrastructure, logistics and consulting firms.

WORK CULTURE

Companies usually work 5-6 days a week, 8-9 hours a day, with time on the factory shop-floor and in the office. Shift systems are possible. Opportunities exist for persons with disabilities.

WHO HIRES

- | | |
|--|--|
| • Automobile companies (Tata Motors, Maruti) | • Manufacturing and FMCG companies |
| • Steel, power and oil-gas companies | • Electronics & EMS makers (Flex etc.) |
| • Logistics and e-commerce (Amazon etc.) | • Management and operations consulting firms |

DEMAND (2026)

A push on Make in India, automation, supply chains and efficiency is raising demand for industrial engineers in 2026, across both manufacturing and services.

7 Career growth

- 1 Industrial Engineer
- 2 Senior Industrial Engineer
- 3 Project Manager
- 4 Head of Industrial Engineering
- 5 General Manager/Operations Director

EARNINGS

Starting	₹20,000-35,000/माह
Mid level	₹45,000-80,000/माह
Senior level	₹1,50,000+/माह

Source: PayScale and industry data, 2026; higher in MNCs, senior management and abroad.

8 The good parts · The challenges

The good parts

- A blend of science and management
- Demand in almost every industry
- Fast growth towards management and leadership

The challenges

- Shop-floor pressure and targets
- Shifts and long hours possible
- Constant demand to improve processes

9 Real-life journeys

Revathi Advaiti

CEO, Flex (global manufacturing company); started as a shop-floor supervisor

One of five daughters of a middle-class Tamil family, Revathi Advaiti studied mechanical engineering at BITS Pilani (Rajasthan) and began as a shop-floor supervisor at an Eaton factory — often the only woman on the floor; today she is CEO of Flex, one of the world's largest electronics manufacturers.

Wikipedia · https://en.wikipedia.org/wiki/Revathi_Advaiti

Girish Wagh

Executive Director, Tata Motors; manufacturing and production leader

A middle-class engineer from Pune, Girish Wagh studied mechanical engineering and manufacturing management at MIT Pune; starting as a young engineer at Tata Motors, he led the teams that built the Tata Ace ('chhota hathi') and Tata Nano, rising to the company's board.

Wikipedia · https://en.wikipedia.org/wiki/Girish_Wagh

Pratik Gandhi**Production/Industrial Engineer (later actor, 'Scam 1992')**

Son of two schoolteachers from Surat, Pratik Gandhi did a diploma in mechanical engineering and a degree in Production Engineering, then worked about 15 years as an industrial engineer in Mumbai firms supporting his family — showing an engineering job can be a stable backbone for big dreams.

The Better India · <https://thebetterindia.com/culture/pratik-gandhi-theatre-to-ott-series-scam-1992-journey-11802006>

10 If this route does not work out

One exam or one attempt does not close the door. The same subjects also open these routes — entry is usually easier, and you can return to this field later.

- Civil Engineer
- Agricultural Engineer
- Aeronautical Engineer

11 Sources & further reading

1. Rajasthan Career Guidance — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%94%e0%a4%a6%e0%a5%8d%e0%a4%af%e0%a5%8b%e0%a4%97%e0%a4%bf%e0%a4%95-%e0%a4%87%e0%a4%82%e0%a4%9c%e0%a5%80%e0%a4%a8%e0%a4%bf%e0%a4%af%e0%a4%b0-industrial-engineer/>
2. AICTE — <https://www.aicte-india.org>
3. National Career Service (NCS) — <https://www.ncs.gov.in>
4. National Scholarship Portal — <https://scholarships.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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