



SAARTHI • सारथी

करियर मार्गदर्शन पोर्टल • Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट • CAREER SHEET

शुगर टेक्नोलॉजिस्ट

A Sugar Technologist runs, controls and improves the processes that turn sugarcane into sugar, ethanol and by-products. India is among the world's largest sugar producers, and the ethanol blending programme has created new...



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-4712

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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

A Sugar Technologist runs, controls and improves the processes that turn sugarcane into sugar, ethanol and by-products. India is among the world's largest sugar producers, and the ethanol blending programme has created new opportunities in 2026.

2 At a glance

Minimum qualification	B.Sc/B.Tech or diploma in Sugar Technology
Work mode	Factory and lab work, shifts possible
Demand	Steady demand with new openings in ethanol and by-product units
Top earning	₹1.25 lakh+ per month at research/production head level

3 What you need

INTERESTS

- Doing experiments
- Working in a team
- Analysing problems and situations

ABILITIES

- Attention to detail
- Working with machines and quality instruments
- Scientific understanding of chemistry and processes

KEY SKILLS

- Knowledge of sugar processes like crushing, clarification and crystallisation
- Ethanol and by-product processing (bagasse, molasses)
- Quality testing and lab analysis
- Plant machinery and process control

- Food safety and environmental standards
- Report writing and team management

4 How to get there

- 1 Complete Class 12 in Science stream (Physics, Chemistry, Maths/Biology)
- 2 Do B.Tech in Chemical Engineering or B.Sc in Chemistry
- 3 Or take a Sugar Technology diploma from National Sugar Institute (NSI) Kanpur
- 4 After graduation, do a PG diploma or M.Sc in Sugar Technology
- 5 Start your career as a trainee in a sugar mill or distillery

MAIN EXAMS

- NSI Kanpur admission test
- JEE Main/REAP (for Chemical Engineering)

5 Where to study

GOVERNMENT INSTITUTES

- National Sugar Institute — Kanpur, Uttar Pradesh (<https://nsi.gov.in>)
- MMM University of Technology — Gorakhpur, Uttar Pradesh
- Dr. B.R. Ambedkar NIT — Jalandhar, Punjab
- Rajasthan Technical University (Chemical Engg.) — Kota, Rajasthan

PRIVATE INSTITUTES

- Vasantdada Sugar Institute — Pune, Maharashtra
- Rajarambapu College of Sugar Technology — Islampur, Maharashtra

FEES

Course fees range from about ₹26,000 to ₹2 lakh for the full course; government institutes cost less.

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

Sugar mills, distilleries and ethanol plants, beverage companies, research labs, food processing units.

WORK CULTURE

Not a desk job; 5-6 days a week, 8-9 hours; shift system in crushing season; opportunities exist for persons with disabilities.

WHO HIRES

- Cooperative and private sugar mills in UP, Maharashtra and Karnataka
- Ethanol distilleries and biofuel companies
- NSI and sugar research institutes
- Rajasthan State Ganganagar Sugar Mills
- Beverage and food companies
- Plant machinery makers and consultancy firms

DEMAND (2026)

With India achieving 20 percent ethanol blending, sugar mills are expanding into ethanol and power units, keeping demand for trained sugar technologists steady and growing.

7 Career growth

- 1 Research Trainee
- 2 Sugar Technologist
- 3 Senior Sugar Technologist
- 4 Manager Research / Production Manager
- 5 Head of Research / Chief Chemist

EARNINGS

Starting	₹18,000-30,000
Mid level	₹35,000-60,000
Senior level	₹70,000-1,25,000

Approximate monthly pay; depends on mill size, state and experience.

8 The good parts · The challenges

The good parts

- Specialised field with less competition among trained people
- New opportunities from ethanol and biofuel expansion
- Satisfaction of working close to rural and farm economy

The challenges

- Most jobs are in rural mill locations
- Long shifts and pressure in crushing season
- Industry depends on cane output and government policies

9 Real-life journeys

Narendra Mohan

Former Director, National Sugar Institute, Kanpur

Prof. Narendra Mohan, a Sugar Technology postgraduate who joined NSI in 1988, became its Director in 2013 and published over 150 research papers. He played a key role in India's ethanol blending programme and sugar mill modernisation.

International Sugar Journal · <https://sugarindustry.info/news/professor-narendra-mohan-an-appreciation/>

Seema Paroha

Director, National Sugar Institute, Kanpur

Biochemistry scientist Prof. Seema Paroha heads NSI Kanpur, India's premier sugar institute, as its Director. She is building the national roadmap for AI-based quality testing and digital technology in the sugar industry.

ChiniMandi · <https://www.chinimandi.com/nsi-kanpur-leads-indias-ai-powered-sugar-revolution/>

10 Sources & further reading

1. Rajasthan Govt Career Guidance Portal — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%b6%e0%a5%81%e0%a4%97%e0%a4%b0-%e0%a4%9f%e0%a5%87%e0%a4%95%e0%a5%8d%e0%a4%a8%e0%a5%8b%e0%a4%b2%e0%a5%89%e0%a4%9c%e0%a4%bf%e0%a4%b8%e0%a5%8d%e0%a4%9f-sugar-technologist/>
2. National Sugar Institute, Kanpur — <https://nsi.gov.in>
3. National Career Service (NCS) — <https://www.ncs.gov.in>
4. NIRF Rankings 2024 — <https://www.nirfindia.org/Rankings/2024/Ranking.html>



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