



SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट · CAREER SHEET

फूड इंजीनियर

Food engineers design the machines and processes that turn raw milk, grains, fruits and vegetables into safe, nutritious food products. It is a key career in India's fast-growing food processing industry.



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-4660

राजकीय उच्च माध्यमिक विद्यालय, जेठन्तरी

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

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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

Food engineers design the machines and processes that turn raw milk, grains, fruits and vegetables into safe, nutritious food products. It is a key career in India's fast-growing food processing industry.

2 At a glance

Minimum qualification	12th PCM/PCB + B.Tech in Food Technology/Engineering
Work mode	Factory, lab and office; shifts possible
Demand	High - rapid growth in food processing, dairy and packaged foods
Top earning	R&D/plant head: Rs 1.5-2.5 lakh+/month

3 What you need

INTERESTS

- Interest in science and food
- Curiosity about how things are made
- Working in teams

ABILITIES

- Scientific and analytical thinking
- Attention to detail and hygiene
- Problem-solving ability

KEY SKILLS

- Food processing and preservation techniques
- Food chemistry and microbiology
- Quality control and FSSAI standards
- Plant machinery and process design
- Understanding of packaging and cold chain
- Data handling and reporting

4 How to get there

- 1 Pass 12th with Physics, Chemistry and Maths or Biology.
- 2 Do B.Tech in Food Technology/Food Engineering via JEE Main/REAP or ICAR exam.
- 3 Do an internship in a food company or dairy plant.
- 4 Start in quality, production or R&D roles.
- 5 Optionally clear GATE for M.Tech, or start a food business.

MAIN EXAMS

- JEE Main
- ICAR AIEEA (agricultural universities)
- REAP (Rajasthan)
- GATE (for M.Tech)

5 Where to study

GOVERNMENT INSTITUTES

- College of Dairy & Food Science Technology, MPUAT — Udaipur, Rajasthan (<https://www.mpuat.ac.in/>)
- NIFTEM Kundli — Sonapat, Haryana
- NIFTEM Thanjavur (IIFPT) — Thanjavur, Tamil Nadu
- IIT Kharagpur (Agricultural & Food Engineering) — Kharagpur, West Bengal
- Tezpur University — Tezpur, Assam

PRIVATE INSTITUTES

- Manipal University Jaipur — Jaipur, Rajasthan (<https://jaipur.manipal.edu>)
- NIMS University — Jaipur, Rajasthan
- Singhania University — Jhunjhunu, Rajasthan
- Amity University Jaipur — Jaipur, Rajasthan

ONLINE

- NPTEL / SWAYAM (Food Technology courses) — Online (<https://swayam.gov.in>)

FEES

Around Rs 15,000-80,000 per year in government institutes; Rs 1-4 lakh per year in private ones. Scholarships can cut costs.

SCHOLARSHIPS

- National Scholarship Portal (<https://scholarships.gov.in>)
- Vidya Lakshmi Education Loan Portal (<https://www.vidyalakshmi.co.in>)
- Rajasthan Social Justice Dept Scholarships (<https://sje.rajasthan.gov.in>)
- Buddy4Study (<https://www.buddy4study.com>)

6 What the work is like

WHERE YOU WORK

Food and dairy companies, processing plants, government food labs, research centres, startups.

WORK CULTURE

Work in factories and labs with safety attire; 35-45 hours a week, occasional shifts or extra hours. Opportunities exist for persons with disabilities.

WHO HIRES

- | | |
|--------------------------------------|-----------------------|
| • Amul and Saras (dairy federations) | • Nestle India |
| • Britannia and Parle | • ITC Foods |
| • PepsiCo and Coca-Cola | • FSSAI and food labs |

DEMAND (2026)

Demand is high in 2026 due to the PLI scheme and rising packaged-food consumption; dairy, spice and snack industries are growing in Rajasthan.

7 Career growth

- 1 Quality/production trainee
- 2 Food engineer / product developer
- 3 Senior engineer / quality engineer
- 4 Product quality manager / plant manager
- 5 R&D head / food entrepreneur

EARNINGS

Starting	₹25,000-40,000
Mid level	₹50,000-90,000
Senior level	₹1,00,000-2,00,000+

Monthly pay; varies by company and city. 2026 levels, indicative.

8 The good parts · The challenges

The good parts

- Fast-growing industry with steady demand
- Diverse options from dairy to startups
- Direct social impact through food safety

The challenges

- Noise and temperature exposure in factories
- Modest starting salary
- Extra work in festival/peak seasons

9 Real-life journeys

Priyanka Agarwal

Shift brewer and new product development, United Breweries

Priyanka did B.Tech in food technology and joined United Breweries through campus placement. She now handles new product development and quality in the male-dominated brewing industry.

People Matters · <https://www.peplematters.in/article/diversity/brewing-change-how-women-are-redefining-the-indian-beer-industry-35282>

P.C. Musthafa

Co-founder, iD Fresh Food

Son of a village coolie in Kerala, Musthafa failed Class 6 but worked hard to become an engineer. Starting with idli-dosa batter, he built a food processing company worth over Rs 2,000 crore.

Zee News · <https://zeenews.india.com/companies/a-coolies-son-who-failed-in-class-6th-decided-to-enter-everyones-kitchen-and-built-rs-2000-cr-ore-empire-from-scratch-2629644.html>

10 Sources & further reading

1. Rajasthan Career Guidance: Food Engineer — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%ab%e0%a4%bc%e0%a5%82%e0%a4%a1-%e0%a4%87%e0%a4%82%e0%a4%9c%e0%a5%80%e0%a4%a8%e0%a4%bf%e0%a4%af%e0%a4%b0-food-engineer/>
2. AICTE — <https://www.aicte-india.org>
3. NPTEL (free online courses) — <https://nptel.ac.in>
4. National Career Service (NCS) — <https://www.ncs.gov.in>



And 770+ more careers — the whole portal

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