



SAARTHI • सारथी

करियर मार्गदर्शन पोर्टल • Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट • CAREER SHEET

कृषि इंजीनियर

Agricultural engineers develop farm machinery, irrigation systems and food processing technology. In agriculture-rich Rajasthan it is a good way to build a technical career while helping farmers.



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-4595

राजकीय उच्च माध्यमिक विद्यालय, जेठन्तरी

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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

Agricultural engineers develop farm machinery, irrigation systems and food processing technology. In agriculture-rich Rajasthan it is a good way to build a technical career while helping farmers.

2 At a glance

Minimum qualification	12th Science + B.Tech in Agricultural Engineering
Work mode	Office + farm/field visits
Demand	Growing - in farm mechanisation, drones and food processing
Top earning	Senior level: Rs 1-2 lakh+/month

3 What you need

INTERESTS

- Interest in farming, soil and machines
- Finding practical solutions to problems
- Understanding how things work

ABILITIES

- Analysis and problem solving
- Communicating with farmers in simple language
- Attention to detail

KEY SKILLS

- Farm machinery and tractor technology
- Soil and water conservation engineering
- Use of CAD and survey tools
- Irrigation and water management (drip, sprinkler)
- Food processing and storage technology
- Understanding of agri-drones and precision farming

4 How to get there

- 1 Pass 10+2 with Science (PCM/PCB).
- 2 Enter B.Tech (Agricultural Engineering) via Rajasthan JET, JEE or ICAR AIEEA.
- 3 Complete the degree at an institute like CTAE Udaipur and do farm internships.
- 4 Choose M.Tech via GATE (AG) or research via ICAR-JRF.
- 5 Get jobs in agriculture departments, tractor companies or agri-tech startups.

MAIN EXAMS

- Rajasthan JET (Agriculture)
- ICAR AIEEA
- JEE Main (for IIT Kharagpur etc.)
- GATE (Agricultural Engineering)

5 Where to study

GOVERNMENT INSTITUTES

- CTAE, MPUAT — Udaipur, Rajasthan (<https://www.ctae.ac.in>)
- SKN Agriculture University — Jobner (Jaipur), Rajasthan
- Agriculture University Kota — Kota, Rajasthan
- IIT Kharagpur (Agricultural & Food Engineering) — Kharagpur, West Bengal
- GB Pant University of Agriculture and Technology — Pantnagar, Uttarakhand

PRIVATE INSTITUTES

- Lovely Professional University — Jalandhar, Punjab
- SHUATS (Sam Higginbottom University) — Prayagraj, Uttar Pradesh

ONLINE

- NPTEL/SWAYAM (Agricultural Engineering courses) — Online (<https://nptel.ac.in>)
- IGNOU (related agriculture programmes) — Online/distance

FEES

About Rs 15,000-50,000 per year in government agricultural universities; up to Rs 1-2 lakh per year in private institutes.

SCHOLARSHIPS

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

6 What the work is like

WHERE YOU WORK

Agricultural research institutes (ICAR), agriculture departments, tractor-machinery companies, irrigation and food processing firms, agri-tech startups and NGOs.

WORK CULTURE

Office work plus field work on farms and in workshops; more travel during sowing-harvest seasons. Opportunities exist for persons with disabilities.

WHO HIRES

- | | |
|---|--|
| • ICAR institutes and agricultural universities | • State agriculture/horticulture departments |
| • Mahindra / John Deere / Escorts | • Jain Irrigation / Netafim |
| • Food processing companies (Amul etc.) | • Agri-tech and drone startups |

DEMAND (2026)

Demand is rising in 2026 with the government push on mechanisation, the Drone Didi scheme, micro-irrigation and food processing; Rajasthan especially needs water management experts.

7 Career growth

- 1 Trainee/Assistant Engineer
- 2 Agricultural Engineer
- 3 Senior Engineer / Scientist
- 4 Project/Operations Manager
- 5 Chief Engineer / Director

EARNINGS

Starting	₹20,000-40,000
Mid level	₹50,000-90,000
Senior level	₹1,00,000-2,00,000+

Monthly pay; as per grade in government scientist/engineer posts. 2026 levels, indicative.

8 The good parts · The challenges

The good parts

- Direct contribution to raising farmers' incomes
- Good openings in government jobs and research
- Emerging agri-tech startup space

The challenges

- Field work in sun and dust
- Starting private-sector pay is relatively low
- Less glamour than IT; patience needed

9 Real-life journeys

Devi Murthy

Founder, Kamal Kisan (affordable farm machinery)

Engineer Devi Murthy started Kamal Kisan in Bengaluru to build low-cost planting and mulching machines for small farmers. Her machines cut labour costs and ease farmers' toil.

The Better India · <https://thebetterindia.com/80663/devi-murthy-kamal-kisan-small-farmers-mechanism/>

Dr. Shyam Narayan Jha

Deputy Director General (Agricultural Engineering), ICAR

An agricultural engineer from Bihar, Dr Jha is a pioneering researcher in makhana processing and food quality testing. He served as ICAR's Deputy Director General (Agricultural Engineering) and president of ISAE.

National Academy of Agricultural Sciences · <https://naas.org.in/detail.php?id=195>

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
- Aeronautical Engineer
- Artificial Intelligence Engineer

11 Sources & further reading

1. Rajasthan Career Guidance: Agricultural Engineer — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%95%e0%a5%83%e0%a4%b7%e0%a4%bf-%e0%a4%87%e0%a4%82%e0%a4%9c%e0%a5%80%e0%a4%a8%e0%a4%bf%e0%a4%af%e0%a4%b0-agricultural-engineer/>
2. Indian Council of Agricultural Research (ICAR) — <https://icar.org.in>
3. Indian Society of Agricultural Engineers — <https://isae.in>
4. NPTEL (free online courses) — <https://nptel.ac.in>
5. National Career Service (NCS) — <https://www.ncs.gov.in>



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