



SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट · CAREER SHEET

बीज टेक्नोलॉजिस्ट

A seed technologist works on improving the physical and genetic quality of seeds. Seed technology covers developing and releasing new varieties, seed production, processing, certification and storage. For a dryland farming 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/seed-technologist

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

A seed technologist works on improving the physical and genetic quality of seeds. Seed technology covers developing and releasing new varieties, seed production, processing, certification and storage. For a dryland farming state like Rajasthan, good-quality and drought-tolerant seed is vital. In India this industry was founded by Dr. B. R. Barwale.

2 At a glance

Minimum qualification	10+2 (PCB) then B.Sc/M.Sc Agriculture/Seed Science
Selection exam	ICAR AIEEA, GATE, CUET, AGRICET
Starting salary	₹25,000–45,000/month
Work mode	Seed companies, nurseries, labs, farms

3 What you need

INTERESTS

- Interest in science and farming
- Working together in a team
- Enjoy creating new things and varieties

ABILITIES

- Excellent analytical skills
- Ability to carry out scientific experiments
- Keen observation and quality checking

KEY SKILLS

- Seed production and processing techniques
- Knowledge of plant breeding and genetics
- Laboratory and field testing
- Seed testing, germination and quality analysis
- Seed certification and storage rules
- Data recording and reporting

4 How to get there

- 1 Complete 10+2 in science stream (Physics, Chemistry, Biology).
- 2 Do a B.Sc in Agriculture / Biotechnology / Biological Sciences.
- 3 Pursue an M.Sc in Seed Science and Technology.
- 4 Clear an entrance exam (ICAR AIEEA, GATE, CUET, AGRICET).
- 5 For a research/specialist post, do a Ph.D. or clear ICAR ARS-NET.

MAIN EXAMS

- ICAR AIEEA (UG/PG entrance)
- GATE (Agricultural Engineering/Biotech)
- CUET-PG / AGRICET
- ICAR ARS-NET (scientist eligibility)

5 Where to study

GOVERNMENT INSTITUTES

- महाराणा प्रताप कृषि एवं प्रौद्योगिकी विश्वविद्यालय (MPUAT) — Udaipur, Rajasthan (<https://www.mpuat.ac.in/>)
- श्री कर्ण नरेंद्र कृषि विश्वविद्यालय (SKNAU) — Jobner, Jaipur, Rajasthan (<https://sknau.ac.in/>)
- भारतीय कृषि अनुसंधान संस्थान (ICAR-IARI) — New Delhi (<https://www.iari.res.in/>)
- बनारस हिंदू विश्वविद्यालय (BHU) — Varanasi, Uttar Pradesh (<https://www.bhu.ac.in/>)

PRIVATE INSTITUTES

- एमिटी यूनिवर्सिटी — Noida, Uttar Pradesh
- सैम हिगिनबॉटम कृषि, प्रौद्योगिकी एवं विज्ञान विश्वविद्यालय (SHUATS) — Prayagraj, Uttar Pradesh

ONLINE

- SWAYAM / NPTEL बीज एवं कृषि पाठ्यक्रम — Online (<https://swayam.gov.in/explorer?searchText=seed>)
- ICAR e-Course / कृषि MOOCs — Online (<https://icar.org.in/>)

FEES

Government agricultural universities charge low fees (about ₹15,000–50,000/year); at private institutes the full course can cost around ₹15,000–2,25,000. Figures are indicative and vary by institute.

SCHOLARSHIPS

- राष्ट्रीय छात्रवृत्ति पोर्टल (NSP) (<https://scholarships.gov.in>)
- ICAR राष्ट्रीय प्रतिभा छात्रवृत्ति (NTS) (<https://icar.org.in/>)
- राजस्थान समाज कल्याण विभाग छात्रवृत्ति (<https://sje.rajasthan.gov.in>)
- Buddy4Study छात्रवृत्ति (<https://www.buddy4study.com>)

6 What the work is like

WHERE YOU WORK

Seed companies, the horticulture industry, nurseries, plant-breeding stations, seed certification agencies, research labs, agricultural universities and the National Seeds Corporation (NSC).

WORK CULTURE

You work in an office as well as in the lab and field. Typically 5–6 days a week and 8–9 hours a day. Local travel and field inspection are part of the role. Opportunities also exist for persons with disabilities.

WHO HIRES

- Seed companies (Mahyco, Rasi Seeds, Nuziveedu, Kaveri)
- ICAR institutes and state agricultural universities
- Horticulture and nursery industry
- National Seeds Corporation (NSC) and state seed corporations
- Seed certification agencies and agriculture departments
- Agri-biotech and research companies

DEMAND (2026)

Growing need for improved and drought-tolerant seed is rapidly expanding opportunities in seed technology. In Rajasthan's dryland farming, high-quality certified seed is crucial to raise farmers' yields and incomes, making this field especially relevant for the state.

7 Career growth

- 1 Seed/Crop System Specialist
- 2 Seed/Crop Inspector
- 3 Seed Production Manager / Senior Scientist
- 4 Head of Seed Quality / General Manager

EARNINGS

Starting	₹25,000–45,000/माह
Mid level	₹50,000–90,000/माह
Senior level	₹1,20,000+/माह

Government institutes pay on the Pay Commission scale, while private seed companies offer attractive packages with experience. Figures are indicative for 2026 and vary by institute.

8 The good parts · The challenges

The good parts

- Contributes to food security and farmers' incomes
- Varied work across both lab and field
- Fast-growing opportunities in the private seed industry

The challenges

- Field work tied to weather and crop cycles
- High precision needed in quality and certification
- Higher study (M.Sc/Ph.D.) needed to advance

9 Real-life journeys

Dr. Badrinarayan R. Barwale

Father of India's seed industry, founder of Mahyco

Dr. B. R. Barwale pioneered the production of affordable, better-quality seeds. Starting with okra in Maharashtra, he founded Mahyco, India's first large seed company. For this contribution to the seed industry he received the World Food Prize in 1998.

The World Food Prize · https://www.worldfoodprize.org/en/laureates/19871999_laureates/1998_barwale/

Rahibai Soma Popere

'Seed Mother', native-seed conservationist, Padma Shri awardee

Despite having no formal schooling, Rahibai Soma Popere conserved hundreds of native seed varieties and is known as the 'Seed Mother'. She built a seed bank and trained farmers in seed selection and conservation. For this she received the Padma Shri and Nari Shakti Puraskar in 2020, showing women can earn national recognition in seed conservation.

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

10 Sources & further reading

1. Rajasthan Career Guidance Portal — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%ac%e0%a5%80%e0%a4%9c-%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/>
2. MPUAT, Udaipur — <https://www.mpuat.ac.in/>
3. 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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