



SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट · CAREER SHEET

वनस्पति विज्ञानी

Botanists study the structure, growth, properties and biochemical processes of plants. Their core work is conserving plants and biodiversity and improving crops.



Scan for everything on this career

Salary, exams, colleges, the routes in and the steps after — all on the portal.

career.gsssjethantri.in/#/career/botanist

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

Botanists study the structure, growth, properties and biochemical processes of plants. Their core work is conserving plants and biodiversity and improving crops.

2 At a glance

Minimum qualification	B.Sc + M.Sc Botany
Selection exam	CSIR-UGC NET
Avg Salary	₹3–10 LPA
Work mode	Field & lab

3 What you need

INTERESTS

- Deep interest in plants and nature
- Enjoy experiments and observation
- Enjoy working outdoors in the field

ABILITIES

- Keen observation skills
- Patience and discipline
- Analytical thinking

KEY SKILLS

- Plant identification and classification
- Field survey and sample collection
- Tissue culture
- Microscopy and lab techniques
- Data analysis and record-keeping
- Scientific writing and reporting

4 How to get there

- 1 Complete 10+2 in the science stream (Physics, Chemistry, Biology).

- 2 Complete B.Sc in Botany/Agriculture/Horticulture.
- 3 Do an M.Sc in Botany.
- 4 Clear CSIR-UGC NET and pursue a Ph.D for research and teaching.

MAIN EXAMS

- CSIR-UGC NET (Life Sciences)
- ICAR AIEEA (agriculture route)
- University entrance tests

5 Where to study**GOVERNMENT INSTITUTES**

- University of Rajasthan — Jaipur (<https://www.uniraj.ac.in>)
- Mohanlal Sukhadia University — Udaipur (<https://www.mlsu.ac.in>)
- Maharana Pratap University of Agriculture & Technology — Udaipur (<https://www.mpuat.ac.in>)
- Hindu College, University of Delhi — Delhi (<https://www.hinducollege.ac.in>)

PRIVATE INSTITUTES

- Fergusson College — Pune
- Mount Carmel College — Bengaluru
- St. Xavier's College — Ahmedabad

ONLINE

- SWAYAM / NPTEL (Plant Biology) — Online (<https://swayam.gov.in>)
- Coursera — Online (<https://www.coursera.org>)

FEES

B.Sc/M.Sc Botany fees range from about ₹5,000 to ₹1,00,000 per year. Government colleges charge much less.

SCHOLARSHIPS

- National Scholarship Portal (<https://scholarships.gov.in>)
- CSIR-UGC JRF Fellowship (<https://csirhrdg.res.in>)
- Buddy4Study (<https://www.buddy4study.com>)

6 What the work is like

WHERE YOU WORK

Research labs, biotechnology institutes, forest departments, seed and plant companies, agricultural institutes, botanical gardens and universities.

WORK CULTURE

Work involves both field surveys and lab work, usually 5–6 days a week and 8–9 hours a day.

WHO HIRES

- Botanical Survey of India (BSI)
- Forest and environment departments
- Pharma and herbal companies
- Agricultural research institutes (ICAR)
- Seed and agri-biotech companies
- Universities and colleges

DEMAND (2026)

With rising focus on climate change, biodiversity conservation, agri-biotech and herbal products, demand for botanists is growing in 2026.

7 Career growth

- 1 Trainee / Junior Botanist
- 2 Botanist
- 3 Senior Botanist / Lead Researcher
- 4 Professor / Principal Scientist

EARNINGS

Starting	₹22,000–40,000/माह
Mid level	₹45,000–80,000/माह
Senior level	₹1,00,000+/माह

Salary depends on sector, institution and experience. Figures are indicative.

8 The good parts · The challenges

The good parts

- Work close to nature and the environment
- Diverse roles in research, teaching and field
- Contribution to biodiversity conservation

The challenges

- Ph.D needed for senior positions
- Field work in tough weather conditions
- Relatively modest starting salary

9 Real-life journeys

Janaki Ammal

Renowned Botanist & Cytogeneticist, Padma Shri

E. K. Janaki Ammal was one of India's first major women botanists. She did pioneering work in cytogenetics, phytogeography and plant breeding, improving indigenous sugarcane varieties. She was awarded the Padma Shri in 1977, and a national taxonomy award is named after her.

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

Birbal Sahni

Palaeobotanist & Father of Palaeobotany in India

Birbal Sahni was a great Indian palaeobotanist who studied ancient plant fossils and enriched Indian geology. In 1946 he founded the Birbal Sahni Institute of Palaeosciences in Lucknow, which continues world-class research today.

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

10 Sources & further reading

1. Rajasthan Career Guidance Portal — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%b5%e0%a4%a8%e0%a4%b8%e0%a5%8d%e0%a4%aa%e0%a4%a4%e0%a4%bf-%e0%a4%b5%e0%a4%bf%e0%a4%9c%e0%a5%8d%e0%a4%9e%e0%a4%be%e0%a4%a8%e0%a5%80-%e0%a4%ac%e0%a5%89%e0%a4%9f%e0%a4%a8%e0%a4%bf%e0%a4%b8/>
2. Botanical Survey of India — <https://bsi.gov.in>
3. CSIR HRDG (NET/JRF) — <https://csirhrdg.res.in>
4. Salary reference (PayScale) — <https://www.payscale.com/research/IN/Job=Botanist/Salary>



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