



SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट · CAREER SHEET

भूगर्भ जलशास्त्री

Hydrologists/hydrogeologists scientifically study the occurrence, quantity, quality and recharge of groundwater. In Rajasthan, where water tables are falling, this expertise is critical in 2026.



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-6985

राजकीय उच्च माध्यमिक विद्यालय, जेठन्तरी

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

www.gsssjethantri.in · career.gsssjethantri.in



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

Hydrologists/hydrogeologists scientifically study the occurrence, quantity, quality and recharge of groundwater. In Rajasthan, where water tables are falling, this expertise is critical in 2026.

2 At a glance

Minimum qualification	Class 12 Science + bachelor's-master's in geology/hydrology
Work mode	Mix of field surveys and lab/desk analysis
Demand	High (groundwater crisis, Atal Bhujal Yojana, mining, consulting)
Top earning	₹15-20 lakh/year or more

3 What you need

INTERESTS

- Solving problems
- Exploring nature and science
- Creating new and modern things

ABILITIES

- Working with instruments, equipment and software
- Understanding numbers, data and graphs
- Seeing relationships between things

KEY SKILLS

- Understanding geology and aquifers
- Groundwater surveys and pumping tests
- GIS, remote sensing and modelling software
- Water quality testing
- Data analysis and scientific report writing
- Community-based groundwater management

4 How to get there

- 1 Complete Class 12 with Physics, Chemistry, Maths/Biology
- 2 Do a B.Sc. in geology/earth science
- 3 Do M.Sc./M.Tech in hydrology/applied geology
- 4 Do a PhD for research roles
- 5 Gain experience in groundwater departments, consultancies or research institutes

MAIN EXAMS

- CUET for central university admission
- IIT JAM / GATE for M.Sc./M.Tech
- UPSC Combined Geo-Scientist exam for CGWB and similar posts

5 Where to study

GOVERNMENT INSTITUTES

- Mohanlal Sukhadia University (Geology) — Udaipur, Rajasthan (<https://www.mlsu.ac.in>)
- University of Rajasthan (Geology) — Jaipur, Rajasthan (<https://www.uniraj.ac.in>)
- MPUAT (Soil & Water Engineering) — Udaipur, Rajasthan
- National Institute of Hydrology — Roorkee, Uttarakhand (<https://nihroorkee.gov.in/>)

PRIVATE INSTITUTES

- BITS Pilani — Pilani, Rajasthan

ONLINE

- IGNOU (environment/water programmes) — Distance education (<https://www.ignou.ac.in>)

FEES

Course fees are roughly ₹50,000 to ₹7 lakh per year; B.Sc./M.Sc. at government universities is quite affordable.

SCHOLARSHIPS

- National Scholarship Portal (NSP) (<https://scholarships.gov.in>)
- Rajasthan SJE Scholarship Portal (<https://sje.rajasthan.gov.in/>)
- Vidya Lakshmi Education Loan Portal (<https://www.vidyalakshmi.co.in>)

6 What the work is like

WHERE YOU WORK

Central Ground Water Board, state groundwater departments, research institutes and universities, environmental consultancies, NGOs, mining, agriculture and construction companies

WORK CULTURE

Mix of field and desk work; 6 days a week, 7-8 hours with occasional overtime; contract, freelance and own consultancy possible

WHO HIRES

- Central Ground Water Board (CGWB)
- Projects like Atal Bhujal Yojana
- Environmental consulting firms
- Rajasthan Ground Water Department
- Mining and cement companies
- Research institutes and NGOs

DEMAND (2026)

Rajasthan has many of India's most over-exploited groundwater blocks; aquifer mapping, recharge projects and environmental clearances keep demand for qualified hydrogeologists strong in 2026.

7 Career growth

- 1 Junior hydrogeologist
- 2 Senior hydrogeologist
- 3 Project manager
- 4 Research scientist / consultant

EARNINGS

Starting	₹4-7 लाख/वर्ष
Mid level	₹8-14 लाख/वर्ष
Senior level	₹15-20 लाख/वर्ष या अधिक

Government scientist posts and international projects offer better pay and benefits.

8 The good parts · The challenges

The good parts

- Meaningful science career tied to solving the water crisis
- Opportunities across government, private and research sectors
- Ideal for those who love both fieldwork and science

The challenges

- Tough fieldwork in remote, hot areas
- Master's/PhD needed for good positions
- Government recruitments are limited and competitive

9 Real-life journeys

Himanshu Kulkarni

Hydrogeologist, founder of ACWADAM

After a PhD in geology, Dr Himanshu Kulkarni founded ACWADAM to take groundwater science to villages and shaped India's national aquifer mapping policy. He received the 2025 International Water Prize.

India Water Portal · <https://www.indiawaterportal.org/groundwater/befriending-aquifers-over-a-lifetime>

Yogita Dashora

Groundwater researcher from Udaipur, Rajasthan

Udaipur researcher Dr Yogita Dashora trained village youth as Bhujal Jaankars under the MARVI project, helping farmers measure well water levels and manage groundwater themselves.

Mongabay India · <https://india.mongabay.com/2020/06/bridging-the-gender-gap-through-groundwater-monitoring-in-a-rajasthan-village/>

10 Sources & further reading

1. Rajasthan Govt career guidance — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%ad%e0%a5%82%e0%a4%97%e0%a4%b0%e0%a5%8d%e0%a4%ad-%e0%a4%9c%e0%a4%b2%e0%a4%b6%e0%a4%be%e0%a4%b8%e0%a5%8d%e0%a4%a4%e0%a5%8d%e0%a4%b0%e0%a5%80-hydrologist/>
2. Central Ground Water Board — <https://cgwb.gov.in/>
3. National Institute of Hydrology, Roorkee — <https://nihroorkee.gov.in/>
4. National Career Service — <https://www.ncs.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.

career.gsssjethantri.in