



SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट · CAREER SHEET

भू-सूचना विज्ञान अभियंता

Geo-informatics engineers build GIS systems from satellite imagery, GPS and map data. This data powers agriculture, urban planning, water, mining and disaster management.



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-4678

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

Geo-informatics engineers build GIS systems from satellite imagery, GPS and map data. This data powers agriculture, urban planning, water, mining and disaster management.

2 At a glance

Minimum qualification	12th science + B.Tech/B.Sc in geo-informatics
Work mode	Computer lab plus field surveys
Demand	Rising - new openings under National Geospatial Policy
Top earning	GIS manager: Rs 1.2 lakh+/month

3 What you need

INTERESTS

- Interest in maps and satellite images
- Science and mathematics
- Working outdoors in the field

ABILITIES

- Analytical thinking
- Precise computer work
- Spatial understanding

KEY SKILLS

- GIS software (ArcGIS, QGIS)
- GPS/drone surveying
- Map making (cartography)
- Remote sensing and image processing
- Databases and Python programming
- Data analysis and reporting

4 How to get there

- 1 Pass 10+2 with Physics, Chemistry, Maths.
- 2 Clear JEE Main/REAP and do B.Tech or B.Sc (geo-informatics/geography).
- 3 A diploma or PG diploma in GIS/remote sensing is another route.
- 4 Specialise via IIRS or ISRO courses.
- 5 Clear GATE for M.Tech geomatics/research.

MAIN EXAMS

- JEE Main / JEE Advanced
- REAP (Rajasthan)
- GATE - Geomatics Engineering
- CUET (for central universities)

5 Where to study

GOVERNMENT INSTITUTES

- Indian Institute of Remote Sensing (IIRS), ISRO — Dehradun, Uttarakhand (<https://www.iirs.gov.in>)
- IIT Bombay (CSRE) — Mumbai, Maharashtra
- IIT Roorkee (Geomatics) — Roorkee, Uttarakhand
- MNIT Jaipur (Civil Engineering - GIS courses) — Jaipur, Rajasthan (<https://www.mnit.ac.in>)

PRIVATE INSTITUTES

- BITS Pilani — Pilani, Rajasthan
- Amity University — Jaipur, Rajasthan
- UPES (Geoinformatics) — Dehradun, Uttarakhand
- Symbiosis Institute of Geoinformatics — Pune, Maharashtra

ONLINE

- NPTEL/SWAYAM (Remote Sensing & GIS) — Online (<https://nptel.ac.in>)
- IGNOU (PG Diploma in Geoinformatics) — Online/distance
- Coursera (GIS Specialization) — Online

FEES

About Rs 15,000-2 lakh in government institutes; Rs 3-12 lakh in private universities (full course).

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

ISRO/government agencies, town planning departments, mining-water-agriculture companies, IT and mapping firms.

WORK CULTURE

5-6 days a week, 8-9 hours; field surveys as per project. Opportunities exist for persons with disabilities.

WHO HIRES

- | | |
|-----------------------------------|--------------------------------|
| • ISRO / NRSC | • Survey of India |
| • Esri India | • Google / MapmyIndia |
| • L&T / Tata Consulting Engineers | • State remote sensing centres |

DEMAND (2026)

The National Geospatial Policy, smart cities, drone surveys and 5G network planning are driving fast-rising demand for GIS specialists in 2026.

7 Career growth

- 1 GIS Technician/Trainee
- 2 GIS Analyst
- 3 GIS Specialist
- 4 Geo-informatics Engineer
- 5 GIS Manager

EARNINGS

Starting	₹18,000-30,000
Mid level	₹35,000-60,000
Senior level	₹70,000-1,20,000+

Monthly pay; adjusted to 2026 levels from government source data, indicative.

8 The good parts · The challenges

The good parts

- Work with new tech (drones, AI)
- Opportunities in both government and private sectors
- Balanced mix of field and desk work

The challenges

- Starting salary relatively low
- Field surveys mean sun and travel
- Continuous software learning needed

9 Real-life journeys

Jyoti Rahodia

GIS Specialist, Enel Green Power

Jyoti did her B.Tech in geoinformatics from UPES Dehradun and began as a GIS analyst in Mumbai. She now does spatial analysis for solar and wind projects at a major European renewable energy company.

The Interview Portal · <https://theinterviewportal.com/2023/10/01/geo-spatial-specialist-interview/>

Agendra Kumar

Managing Director, Esri India

Agendra Kumar leads Esri India, the country's largest GIS company. He believes geospatial technology is key to India's 5-trillion-dollar economy vision and that jobs in this field will grow rapidly.

Geospatial World · <https://geospatialworld.net/prime/interviews/geospatial-key-enabler-indias-5-tn-economy-vision-esri-agendra-kumar/>

10 Sources & further reading

1. Rajasthan Career Guidance: Geo-Informatics Engineer — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%ad%e0%a5%82-%e0%a4%b8%e0%a5%82%e0%a4%9a%e0%a4%a8%e0%a4%be-%e0%a4%b5%e0%a4%bf%e0%a4%9c%e0%a5%8d%e0%a4%9e%e0%a4%be%e0%a4%a8-%e0%a4%85%e0%a4%ad%e0%a4%bf%e0%a4%af%e0%a4%82%e0%a4%a4%e0%a4%be-geo-in/>
2. ISRO — <https://www.isro.gov.in>
3. Indian Institute of Remote Sensing (IIRS) — <https://www.iirs.gov.in>
4. National Career Service (NCS) — <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.

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