



SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट · CAREER SHEET

अंतरिक्ष वैज्ञानिक

Space scientists study the solar system, galaxies and outer space by analysing data from satellites, orbiters and space probes. They also contribute to the design and operation of rockets, satellites and space missions.



Scan for everything on this career

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

career.gsssjethantri.in/#/career/space-scientist

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

Space scientists study the solar system, galaxies and outer space by analysing data from satellites, orbiters and space probes. They also contribute to the design and operation of rockets, satellites and space missions.

2 At a glance

Stream	Science (PCM)
Minimum qualification	B.Sc/B.Tech + M.Sc/PhD Physics/Astro
Avg Starting Salary	₹6–10 LPA
Key Employer	ISRO

3 What you need

INTERESTS

- Deep interest in science, maths and space
- Curiosity about the universe and astronomy
- Enjoy experimenting and building things

ABILITIES

- Strong grasp of mathematics and physics
- Problem-solving and logical thinking
- Proficiency in computing and data analysis

KEY SKILLS

- Understanding of astrophysics and space science
- Programming and numerical simulation (Python/MATLAB)
- Mathematical modelling and orbital mechanics
- Knowledge of satellite and spacecraft systems
- Data analysis and signal processing
- Scientific reporting and research writing

4 How to get there

- 1 Complete Class 10+2 Science (Physics, Chemistry, Maths).
- 2 Pursue B.Sc in Physics/Maths or B.Tech in a related branch.
- 3 Do an M.Sc/M.Tech (Astrophysics/Space Science/Aerospace).
- 4 For ISRO, appear for ICRB/IIST or GATE/JEST exams.
- 5 Pursue a PhD at research institutes (TIFR/PRL/IUCAA).
- 6 Start your career as a Junior Scientist/Researcher.

MAIN EXAMS

- ISRO ICRB / IIST admission (space missions)
- JEST (Physics/Astrophysics research)
- GATE (Aerospace/Physics)
- CSIR-UGC NET (Physical Sciences)

5 Where to study

GOVERNMENT INSTITUTES

- Indian Institute of Space Science & Technology (IIST) — Thiruvananthapuram, Kerala (<https://www.iist.ac.in/>)
- Indian Institute of Science (IISc) — Bengaluru, Karnataka
- Physical Research Laboratory (PRL) / ISRO — Ahmedabad, Gujarat (<https://www.prl.res.in/>)
- University of Rajasthan (Physics) — Jaipur, Rajasthan
- Central University of Rajasthan — Ajmer, Rajasthan
- Tata Institute of Fundamental Research (TIFR) — Mumbai, Maharashtra

PRIVATE INSTITUTES

- Loyola College — Chennai, Tamil Nadu
- St. Joseph's University — Bengaluru, Karnataka
- Manipal Academy of Higher Education — Manipal, Karnataka

ONLINE

- SWAYAM / NPTEL (खगोल भौतिकी/एयरोस्पेस) — Online (India)
- IGNOU (भौतिकी कार्यक्रम) — Distance learning (India)

FEES

About ₹10,000–₹1 lakh/year in government institutes; scholarships/fellowships available at institutes like IIST; ₹1–5 lakh/year in private ones. (2026 estimate)

SCHOLARSHIPS

- National Scholarship Portal (NSP) (<https://scholarships.gov.in/>)
- INSPIRE Scholarship (DST) (<https://online-inspire.gov.in/>)
- CSIR-UGC JRF/NET Fellowship (<https://csirnet.nta.ac.in/>)
- Rajasthan CM Higher Education Scholarship (<https://hte.rajasthan.gov.in/>)

6 What the work is like

WHERE YOU WORK

ISRO centres, public and private space research labs, observatories, universities and space startups.

WORK CULTURE

Team-based high-tech work; 5–6 days a week, 8–9 hours. Long hours and shifts possible during missions; opportunities also exist for persons with disabilities.

WHO HIRES

- | | |
|---|---|
| • Indian Space Research Organisation (ISRO) | • Physical Research Laboratory (PRL) |
| • Tata Institute of Fundamental Research (TIFR) | • IUCAA, Pune |
| • Space startups (Skyroot, Agnikul) | • Defence Research organisations (DRDO) |

DEMAND (2026)

ISRO's growing missions and the rapid rise of India's private space industry (NewSpace) are sharply increasing demand for space scientists and aerospace specialists.

7 Career growth

- 1 Junior Researcher / Scientist-Engineer 'SC'
- 2 Space Scientist / Scientist-Engineer
- 3 Senior Scientist / Project Director

4 Head of Department / Centre Director

EARNINGS

Starting	₹6-10 लाख/वर्ष
Mid level	₹10-18 लाख/वर्ष
Senior level	₹18-30 लाख/वर्ष+

ISRO pay follows the 7th Pay Commission; depends on qualification and experience; varies in private space firms.

8 The good parts · The challenges

The good parts

- Contribute to missions of national pride
- Access to cutting-edge technology and research
- Stable and prestigious career at ISRO

The challenges

- Highly competitive entry (ICRB/IIST)
- M.Tech/PhD required for higher roles
- Pressure and long hours during missions

9 Real-life journeys

Anuradha T. K.

Seniormost woman scientist & Satellite Project Director at ISRO (retired)

Anuradha T. K. was the first woman to become a Satellite Project Director at ISRO. She led the launch of the GSAT-12 and GSAT-10 communication satellites. A graduate in Electronics from University Visvesvaraya College of Engineering, Bengaluru, she joined ISRO in 1982 and became a role model for many young women.

Wikipedia · https://en.wikipedia.org/wiki/Anuradha_T._K.

Dr. Mylswamy Annadurai

ISRO Scientist, 'Moon Man of India'; Project Director of Chandrayaan-1 & Mangalyaan

Dr. Mylswamy Annadurai rose from a farming family in Tamil Nadu to become one of ISRO's top scientists through sheer hard work. He played a key role in Chandrayaan-1 and the Mars Orbiter Mission (Mangalyaan), which made India the first country to reach Mars on its very first attempt.

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

10 Sources & further reading

1. Rajasthan Career Guidance – Space Scientist — <https://cg.rajasthan.gov.in/careerguidance/>
2. ISRO Official Website — <https://www.isro.gov.in/>
3. Indian Institute of Space Science & Technology (IIST) — <https://www.iist.ac.in/>
4. Physical Research Laboratory (PRL) — <https://www.prl.res.in/>



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