



SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट · CAREER SHEET

विषयविज्ञानी

Toxicologists study the harmful effects of chemicals, drugs and pollutants on humans, animals and the environment. It is called the 'science of safety' because it helps protect people from poisons and chemical risks.



Scan for everything on this career

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

career.gssjsjethantri.in/#/career/toxicologist

राजकीय उच्च माध्यमिक विद्यालय, जेठन्तरी

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

www.gssjsjethantri.in · career.gssjsjethantri.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

Toxicologists study the harmful effects of chemicals, drugs and pollutants on humans, animals and the environment. It is called the 'science of safety' because it helps protect people from poisons and chemical risks.

2 At a glance

Minimum qualification	B.Sc + M.Sc Toxicology
Selection exam	CSIR-UGC NET / NEET-PG
Avg Salary	₹4–9 LPA
Work mode	Labs & hospitals

3 What you need

INTERESTS

- Strong interest in science and chemistry
- Attention to detail and precision
- Enjoy performing laboratory experiments

ABILITIES

- Analytical and logical thinking
- Patience and careful working
- Accurate observation and measurement

KEY SKILLS

- Handling laboratory instruments
- Data analysis and statistics
- Scientific report writing
- Chemical analysis techniques
- Biosafety and safety protocols
- Problem-solving ability

4 How to get there

- 1 Complete 10+2 in the science stream (Physics, Chemistry, Biology).
- 2 Complete B.Sc in Chemistry/Biology/Biochemistry/Zoology.
- 3 Do an M.Sc in Toxicology.
- 4 Clear CSIR-UGC NET and pursue a Ph.D for research roles.
- 5 Alternative: MBBS followed by MD in Forensic Medicine & Toxicology.

MAIN EXAMS

- CSIR-UGC NET (Life Sciences)
- NEET-PG (medical route)
- GAT-B / 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>)
- Banaras Hindu University — Varanasi (<https://www.bhu.ac.in>)
- King George's Medical University — Lucknow (<https://www.kgmu.org>)

PRIVATE INSTITUTES

- Kasturba Medical College (Manipal) — Manipal
- Christian Medical College — Vellore
- SRM Institute of Science and Technology — Chennai

ONLINE

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

FEES

M.Sc Toxicology fees range from about ₹10,000 to ₹1,20,000 per year. Government institutes 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

Government and private hospitals, forensic and industrial labs, pharmaceutical companies, research institutes and environmental agencies.

WORK CULTURE

Mostly lab-based work, 5–6 days a week, 8–9 hours a day. Strict adherence to safety rules is essential.

WHO HIRES

- | | |
|---------------------------------------|--|
| • Forensic Science Laboratories (FSL) | • Pharmaceutical companies |
| • Hospitals and medical colleges | • Environment and pollution control boards |
| • Food safety authorities (FSSAI) | • Research institutes (ICMR, CSIR) |

DEMAND (2026)

With growing drug safety, food testing, environmental monitoring and forensic investigation, demand for toxicologists is steadily rising in 2026.

7 Career growth

- 1 Trainee / Junior Analyst
- 2 Toxicologist
- 3 Senior Toxicologist
- 4 Head, Toxicology Department

EARNINGS

Starting	₹25,000–45,000/माह
Mid level	₹55,000–90,000/माह
Senior level	₹1,20,000+/माह

Salary depends on organisation, qualification and experience. Figures are indicative.

8 The good parts · The challenges

The good parts

- Direct contribution to public safety
- Opportunities in both research and jobs
- Employment across diverse sectors

The challenges

- Exposure to chemicals and hazardous samples
- Ph.D often needed for senior roles
- Long, precise laboratory hours

9 Real-life journeys

Dr. Kalpana Balakrishnan

Environmental Toxicologist & Professor, Sri Ramachandra Institute, Chennai

Dr. Kalpana Balakrishnan is one of India's leading environmental toxicologists, known for world-class research on the health effects of air pollution and household smoke. An advisor to the WHO and global health studies, she shows how toxicology can save millions of lives.

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

Dr. P. Sampath Kumar

Toxicologist & Forensic Medicine Specialist, Chennai

Dr. P. Sampath Kumar is a Chennai-based toxicologist and forensic medicine specialist with nearly four decades of experience. He completed his MD in Forensic Medicine & Toxicology at Madras Medical College and specialises in medico-legal cases.

Practo · <https://www.practo.com/chennai/doctor/dr-p-sampath-kumar-toxicologist>

10 Sources & further reading

1. Rajasthan Career Guidance Portal — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%b5%e0%a4%bf%e0%a4%b7%e0%a4%b5%e0%a4%bf%e0%a4%9c%e0%a5%8d%e0%a4%9e%e0%a4%be%e0%a4%a8%e0%a5%80-toxicologist/>
2. Society of Toxicology — <https://www.toxicology.org>
3. CSIR HRDG (NET/JRF) — <https://csirhrdg.res.in>
4. Salary reference (PayScale) — <https://www.payscale.com/research/IN/Job=Toxicologist/Salary>



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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