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करियर मार्गदर्शन पोर्टल • Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट • CAREER SHEET

वायरोलॉजिस्ट

Virologists study viruses — how they form, spread and affect humans, animals and plants. Their work helps understand diseases and develop vaccines and treatments.



Scan for everything on this career

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

career.gsssjethantri.in/#/career/virologist

राजकीय उच्च माध्यमिक विद्यालय, जेठन्तरी

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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

Virologists study viruses — how they form, spread and affect humans, animals and plants. Their work helps understand diseases and develop vaccines and treatments.

2 At a glance

Minimum qualification	B.Sc + M.Sc Virology
Selection exam	CSIR-UGC NET / GAT-B
Avg Salary	₹5–14 LPA
Work mode	Research labs

3 What you need

INTERESTS

- Interest in biology and microorganisms
- Attention to detail
- Enjoy analysing problems

ABILITIES

- Analytical and research ability
- Teamwork and communication skills
- Precise and careful experimentation

KEY SKILLS

- Virus culture and isolation
- Cell culture and microscopy
- Data analysis and genome sequencing
- Molecular biology techniques (PCR)
- Biosafety protocols (BSL)
- Scientific writing and publication

4 How to get there

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

- 2 Complete B.Sc in Microbiology/Biotechnology/Life Sciences.
- 3 Do an M.Sc in Virology or a related subject.
- 4 Clear CSIR-UGC NET and pursue a Ph.D for research roles.

MAIN EXAMS

- CSIR-UGC NET (Life Sciences)
- GAT-B (biotech admission)
- ICMR / NIV entrance and fellowship tests

5 Where to study**GOVERNMENT INSTITUTES**

- National Institute of Virology (NIV) — Pune (<https://www.niv.co.in>)
- All India Institute of Medical Sciences (AIIMS) — New Delhi (<https://www.aiims.edu>)
- University of Rajasthan — Jaipur (<https://www.uniraj.ac.in>)
- King George's Medical University — Lucknow (<https://www.kgmu.org>)

PRIVATE INSTITUTES

- Manipal Academy of Higher Education — Manipal
- Amity University — Noida
- Parul University — Vadodara

ONLINE

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

FEES

M.Sc Virology fees range from about ₹80,000 to ₹2,50,000 per year. Government institutes charge far less.

SCHOLARSHIPS

- National Scholarship Portal (<https://scholarships.gov.in>)
- CSIR-UGC JRF Fellowship (<https://csirhrdg.res.in>)
- DBT-JRF (Biotechnology)

6 What the work is like

WHERE YOU WORK

Research institutes (ICMR, NIV, CSIR), hospitals and diagnostic labs, vaccine and pharma companies, universities and health departments.

WORK CULTURE

Largely lab-based work with strict biosafety rules. Typically 5–6 days a week and 9–10 hours a day.

WHO HIRES

- Indian Council of Medical Research (ICMR)
- Vaccine and pharma companies
- Universities and research institutes
- National Institute of Virology (NIV), Pune
- Hospitals and diagnostic labs
- Department of Biotechnology (DBT)

DEMAND (2026)

After pandemics like COVID-19, demand for virologists in vaccine research, genome surveillance and disease control has risen sharply in 2026.

7 Career growth

- 1 Research Fellow
- 2 Virologist
- 3 Senior Virologist
- 4 Head, Department of Virology

EARNINGS

Starting	₹35,000–55,000/माह
Mid level	₹70,000–1,20,000/माह
Senior level	₹1,50,000+/माह

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

8 The good parts · The challenges

The good parts

- Vital contribution to public health
- Involvement in cutting-edge research
- Career opportunities in India and abroad

The challenges

- Risk from infectious samples
- Ph.D needed for senior roles
- Long, precise laboratory hours

9 Real-life journeys

Dr. Gagandeep Kang

Eminent Virologist, India's 'Vaccine Godmother'

Dr. Gagandeep Kang is an eminent Indian virologist known as the 'Vaccine Godmother'. She led extensive research on rotavirus infection in children and played a key role in developing the indigenous rotavirus vaccine 'Rotavac'. She is the first Indian woman elected a Fellow of the Royal Society, London.

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

Dr. Shahid Jameel

Senior Virologist & Genome Research Expert

Dr. Shahid Jameel is a leading Indian virologist known for important research on viruses like hepatitis E and HIV. During COVID-19 he chaired the scientific advisory group of India's genome sequencing consortium (INSACOG) and has been a strong advocate of science-based policy.

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

10 Sources & further reading

1. Rajasthan Career Guidance Portal — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%b5%e0%a4%be%e0%a4%af%e0%a4%b0%e0%a5%8b%e0%a4%b2%e0%a5%89%e0%a4%9c%e0%a4%bf%e0%a4%b8%e0%a5%8d%e0%a4%9f-virologist/>
2. National Institute of Virology — <https://www.niv.co.in>
3. Indian Council of Medical Research — <https://www.icmr.gov.in>
4. Salary reference (SalaryExpert) — <https://www.salaryexpert.com/salary/job/virologist/india>



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