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करियर शीट • CAREER SHEET

परफ्यूजन टेक्नोलॉजिस्ट

A perfusion technologist runs the heart-lung machine during open-heart surgery, keeping blood and oxygen flowing through the patient's body. It is a vital, technical and life-saving allied-health career.



Scan for everything on this career

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

career.gsssjethantri.in/#/career/perfusion-technologist

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प्रधानाचार्य, डाइट बाड़मेर
Principal, DIET Barmer



श्रीमती संघमित्रा

वरिष्ठ व्याख्याता, डाइट बाड़मेर (सहयोग)
Sr. Lecturer, DIET Barmer (Support)



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अभिकल्पना व विकास • व्याख्याता (इतिहास)
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सुरेश कुमार सैन

व्याख्याता (भूगोल) • रा.उ.मा.वि. रामसीन मूंगड़ा



वनिता कुमारी

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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

A perfusion technologist runs the heart-lung machine during open-heart surgery, keeping blood and oxygen flowing through the patient's body. It is a vital, technical and life-saving allied-health career.

2 At a glance

Minimum qualification	B.Sc Perfusion Technology after Class 12 (Science/Biology)
Work mode	In hospital operation theatres, alongside the surgical team
Demand	Rising — skilled perfusionists are scarce as cardiac surgery grows
Top earning	Senior perfusionists: ₹15–25 lakh+/year

3 What you need

INTERESTS

- Interest in how the human body works
- Working with machines and technical equipment
- Working as part of a team

ABILITIES

- Extreme alertness and concentration
- Calm, quick decisions under pressure
- Precision and attention to detail

KEY SKILLS

- Operating the heart-lung (cardiopulmonary bypass) machine
- Monitoring blood gases and temperature
- Clear communication with the surgical team
- Checking and maintaining equipment

- Rapid response in emergencies
- Infection control and safety protocols

4 How to get there

- 1 After Class 10, take Science (Physics, Chemistry, Biology) in Class 11-12.
- 2 Pass Class 12 with Biology and apply through the institute's admission process.
- 3 Complete the 3-year B.Sc Perfusion Technology and internship.
- 4 Gain experience as a junior perfusionist in a cardiac hospital.
- 5 Optionally pursue M.Sc Perfusion Technology to specialize further.

MAIN EXAMS

- NEET UG is required for B.Sc Perfusion at some deemed universities
- Institute-level entrance tests (AIIMS, PGI, universities)

5 Where to study

GOVERNMENT INSTITUTES

- AIIMS Jodhpur — Jodhpur
- SMS Medical College — Jaipur (<https://medicaleducation.rajasthan.gov.in/smsjaipur/>)
- AIIMS New Delhi — New Delhi (<https://www.aiims.edu/>)
- PGIMER — Chandigarh (<https://pgimer.edu.in/>)
- KGMU Lucknow — Lucknow (<https://www.kgmu.org/>)

PRIVATE INSTITUTES

- Manipal Academy of Higher Education — Manipal (<https://manipal.edu/>)
- Christian Medical College (CMC) — Vellore (<https://www.cmch-vellore.edu/>)

ONLINE

- SWAYAM (allied health foundation courses) — Distance (<https://swayam.gov.in/>)

FEES

B.Sc Perfusion fees are roughly ₹10,000–50,000 per year in government institutes and up to ₹1–5 lakh per year in private/deemed institutes.

SCHOLARSHIPS

- National Scholarship Portal (NSP) (<https://scholarships.gov.in/>)
- Rajasthan SJE Scholarships (<https://sje.rajasthan.gov.in/>)
- Vidya Lakshmi (education loans) (<https://www.vidyalakshmi.co.in/>)
- Buddy4Study (<https://www.buddy4study.com/>)

6 What the work is like

WHERE YOU WORK

Cardiac surgery units of government and private hospitals, heart institutes and large super-specialty hospitals.

WORK CULTURE

Team-based work in the operation theatre; long, irregular shifts and emergency calls are common.

WHO HIRES

- Government heart institutes and medical college hospitals
- Dedicated cardiac surgery centres
- Medical device companies (training/technical support)
- Private super-specialty hospitals (e.g. Fortis, Narayana, Apollo)
- Organ transplant and ECMO units

DEMAND (2026)

Heart disease and open-heart surgery are rising fast in India while trained perfusionists remain limited, so demand in 2026 is steady and growing.

7 Career growth

- 1 Perfusion student and intern
- 2 Junior perfusion technologist
- 3 Perfusionist / senior perfusionist
- 4 Chief perfusionist or department head

EARNINGS

Starting	₹3-5 लाख/वर्ष
Mid level	₹6-12 लाख/वर्ष
Senior level	₹15-25+ लाख/वर्ष

Earnings depend on experience, city and hospital; these are 2026 estimates.

8 The good parts · The challenges

The good parts

- Satisfaction of being central to life-saving surgery
- Low competition and demand for a specialized skill
- An allied-health career in relatively less time and cost

The challenges

- Very high responsibility — even small errors are risky
- Long, irregular shifts and emergency duty
- Only a limited number of specialized training institutes

9 Real-life journeys

Bijender Singh Bali

Senior perfusionist, head of pediatric perfusion

Despite a low entrance rank, Bijender Singh Bali built his career in perfusion technology. After finishing his course in 2005 he joined Narayana Hrudayalaya, Bangalore, and went on to head the pediatric perfusion department at Fortis Escorts Heart Institute.

Perfusion.com · <https://perfusion.com/perfusion-india-the-story-of-bijender-singh-bali-1/>

Dr. S. I. Padmavati

India's first woman cardiologist, founder of heart institutes

Dr. S. I. Padmavati was India's first woman cardiologist and founded the National Heart Institute and the All India Heart Foundation in Delhi. She championed modern cardiac surgery in India, where perfusionists are a key part of the team, and was honoured with the Padma Vibhushan.

ThePrint · <https://theprint.in/health/dr-padmavati-godmother-of-cardiology-who-broke-gender-barriers-believed-only-in-science/492503/>

10 Sources & further reading

1. Rajasthan University of Health Sciences (RUHS) — <https://ruhsraj.org/>
2. Board of Cardiovascular Perfusion-India (BCP-I) — <https://www.bcp-i.com/>
3. National Scholarship Portal — <https://scholarships.gov.in/>



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