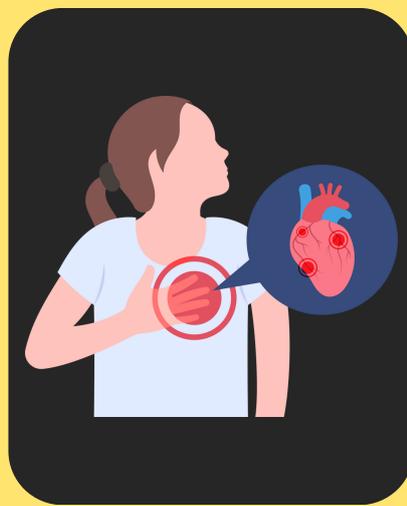
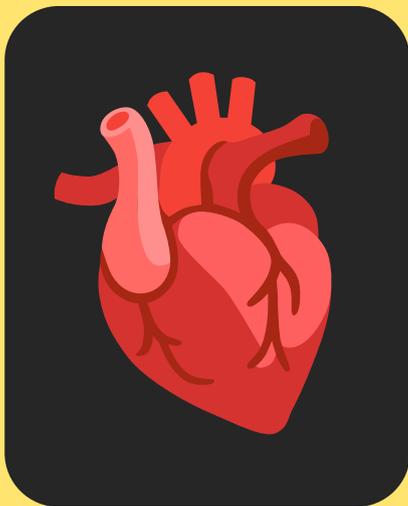


PARAMEDICAL COURSES

BSc in Cardiac Perfusion Technology



Designed for Non-NEET Medical Students



- When students think of a future in medicine, MBBS is often the first path that comes to mind. However, the medical field is much wider, and there are many other courses that can lead to successful and fulfilling careers in healthcare. These options are not only easier to get into compared to MBBS but also focus on specific skills that are needed in hospitals, labs, and clinics.
- In India, many colleges now offer BSc degrees in different healthcare specialisations. **Radiology and Imaging Technology** is one such course, available in **96** colleges, mostly in **Tamil Nadu, Punjab, and Uttarakhand**. **Dialysis Technology** is offered in **125** colleges, with **Karnataka** and **Tamil Nadu** having the most. For students interested in lab work and testing, **Medical Laboratory Technology** is a good option and is offered in **108** colleges across the country.
- **Forensic Science** is another growing field, now taught in **175** colleges. **Nutrition and Dietetics**, which focuses on food and health, is offered in **149** colleges in both government and private institutions. **Anesthesia and Operation Theatre Technology** is one of the most common programs, with **234** colleges offering it, mainly in **Tamil Nadu** and **Karnataka**. **Optometry**, which deals with eye care, is also popular and is available in **125** colleges, especially in **Karnataka** and **Kerala**.
- These are just a few of the many paramedical courses that students can choose after finishing school. This guide will help you understand what each specific specialisation is about, where you can study it, and what kind of job you can get after completing it. If you're interested in working in the medical field but want an alternative to MBBS, these courses are a great place to start.

Table of Contents



01. Introduction	1
02. Why Choose BSc in Cardiac Perfusion Technology?	2
03. BSc in Cardiac Perfusion Technology: Highlights	3
04. BSc in Cardiac Perfusion Technology: Eligibility	4
05. BSc in Cardiac Perfusion Technology: Admissions	5-6
06. BSc in Cardiac Perfusion Technology: Top Colleges	7-11
07. Career Opportunities After BSc in Cardiac Perfusion Technology	12-14
08. BSc in Operation Cardiac Perfusion Scope Abroad	15-17
09. BSc in Cardiac Perfusion Technology FAQs	18-19



Introduction

Are you fascinated by the science that keeps the human heart beating? Do you dream of playing a critical role during a heart surgery, working side by side with the doctors, powering the very lifeblood of the bodies? If so, through a BSc in Cardiac Perfusion Technology, you can launch yourself into the world of paramedical as a marvel of machines. This course is designed for students who want to combine science, skills, compassion, and technology, offering a unique opportunity for science students to enter the medical field without taking the NEET exam.

B.Sc. Cardiac Perfusion Technology is a specialised 3-year undergraduate degree (or 4-year honours degree) that immerses you in the art and science to become an expert in operating the heart-lung machines. Cardiac Perfusion Technology is the science of supporting and sustaining life during heart surgeries.

A perfusionist is a paramedical professional who is vital, highly specialised, and trained in operating the heart-lung machine during surgeries like bypass or valve replacement, or open-heart surgeries. During the surgery, when doctors have to stop the functioning of the heart and lungs temporarily, a perfusionist operates the machine to take over the functions of both the heart and lungs, ensuring blood circulates throughout the body and supplying oxygen to every cell of the human body with extreme accuracy.

The BSc in Cardiac Perfusion Technology program is not just about operating machines; this course is blended with theories, clinical skills, and practical exposure to understand cardiothoracic anatomy, biology, pharmacology, physiology of the human body, focusing on the cardiovascular and respiratory systems, along with step-by-step learning of protocols for equipment handling also the ethical aspects of patient care.

Doors are open in top hospitals, cardiac care units, and emergency teams right from Day 1, after graduation. A student can work as a Cardiac Perfusionist in hospitals, managing life-support systems in cardiac centres, ICUs, and emergency care units. Other roles include clinical perfusion technologist, ECMO specialist, or OT assistant (cardiac specialisation). Many also pursue higher studies like an MSc in Perfusion Technology or a Postgraduate Diploma in Critical Care Technology, diversifying into teaching, research, or the medical device industries, or even specialised master's programs in Cardiovascular Perfusion offered by leading universities in India and abroad.

Why Choose BSc in Cardiac Perfusion Technology?

Saving lives through the power of human biology and technical expertise

- As a perfusionist, you are crucial during cardiac surgeries, operating the heart-lung machine and ensuring that the patient's blood and oxygen circulation continue seamlessly while surgeons repair the heart, a silent lifesaver.
- With the intersection of biology, human anatomy, and technology, the BSc in Cardiac Perfusion Technology Program is the right choice for the curious and scientific mindset that loves understanding how the human body works.
- Interested in advanced devices, gadgets, and problem-solving skills? This course is designed for students who are interested in the technical side of medicine and applying logic in clinical settings.

Deal with patient care without using surgical methods

- Want to work in a hospital with critical cases, but don't want to operate? You will play a vital role in the operating room, contributing to life-saving procedures while focusing on technology and patient care.
- As cardiac surgeries can be long and demanding, individuals with high endurance ability and the capability to thrive under pressure can choose the BSc in Cardiac Perfusion Technology field, as this job requires mental strength and emotional endurance.

NEET is not mandatory

The best part? Start your career with a passion for healthcare and science, and begin your journey to be a part of a medical team without worrying about NEET.

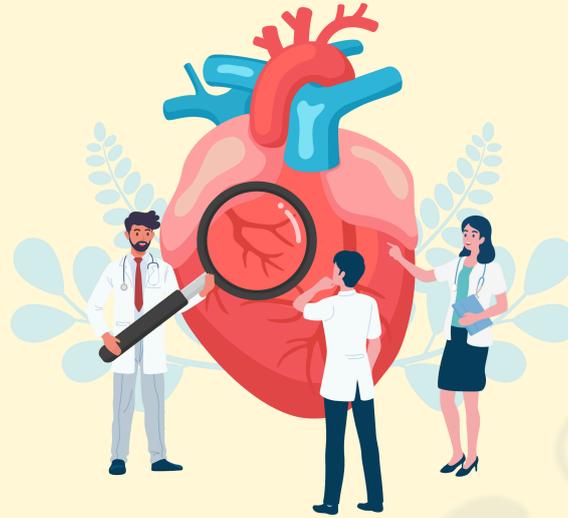
Be a team player to help the community

- Working as a part of the medical community and teams of people saving lives with empathy and effective communication.

Contribute your skills to the world

- A degree in cardiac perfusion technology opens diverse career paths; you can become a key contributor in fields like equipment specialist, Clinical perfusionist, and cardiovascular researcher.
- Your precision makes the literal difference between complication and success, where every heartbeat counts, you are not just supporting but are a part of the team to save lives.

BSc in Cardiac Perfusion Technology: Highlights



Feature	Description
Course Name	BSc in Cardiac Perfusion Technology
Course Duration	A 4-year honours degree with a 1-year internship.
Eligibility	10+2 with Science stream (physics, chemistry, and Biology) Some universities require English as a compulsory subject.
Core Subjects	Human Anatomy & Physiology, Pathophysiology, Biochemistry, Perfusion Equipment, Perfusion Technology & Monitoring Systems, Clinical Practicum & Internship
Internship	Super-specialty hospitals, Cardiac research centers Intensive Care Units, Government or private heart institutes, and clinical technology departments
Medium of Instruction	English
Mode of Study	Full-time.
Key Skills Gained	Equipment handling and technology, maintaining machines related to heart-lung, teamwork, and infection control techniques.
Career Roles	Cardiac/ Clinical perfusionist, Cardiac OT Technician / Operation Theatre Assistant, equipment specialist, and Cardiac Surgery Assistant.
Employment Sectors	Government and private hospitals, Universities, private diagnostic labs, MED-TECH companies, NGO's
Further Study Options	M.Sc. in Clinical Perfusion Science, M.Sc. in Critical Care Technology, or M.Sc. in Biomedical Engineering, M.Sc. in Cardiopulmonary Science, Postgraduate Diploma in ECMO, a Master of Public Health (MPH), or a Master's in Health Administration (MHA)

BSc in Cardiac Perfusion Technology: Eligibility Criteria

It's important to understand the eligibility requirements to ensure that you have the academic background and foundational skills necessary for the BSc in Cardiac Perfusion Technology.

Qualification Eligibility

- Students from a Science background (physics, chemistry, and biology) are generally eligible to apply for the BSc in Cardiac Perfusion Technology program.
- Subject requirements: Some institutions may require an English subject as a prerequisite, as the mode of teaching is English
- Minimum Marks: Most colleges require General category students to secure 50%–60% in their board exam. In some institutions, the aggregate may be calculated based on specific subjects.
- Applicants pursuing the IB curriculum must have an IB Diploma or IB Certificate with an average of 4 points in PCB / PCM with an overall minimum of 24 points.
- Students in the reserved category (SC/ST/OBC) are usually granted a relaxation of 5%–10% in the minimum qualifying marks.
- The PWD candidates with not less than 40% disability are given relaxations; they are eligible for a 5% relaxation in both qualifying marks and entrance test; these relaxations are as per Government of India norms to ensure inclusive access to higher education.

Age Eligibility

Candidates should be at minimum 17 years on December 31st of the admission year.

Entrance Exam

- Central and a few private institutions offer admission based on CUET (Common University Entrance Test)
- Some state universities conduct entrance exams for all Allied Health Science Courses. (MHT CET, KEAM, SRMJEE)
- At some universities, allotment of seats for the shortlisted candidates will be based on the performance in the counseling/interview.
- Students from open schooling should check directly with colleges to confirm eligibility.



Candidates who studied abroad should possess equivalent qualifications as determined by the Association of Indian Universities. If you are planning to study abroad later, it's good to maintain a strong academic record and have certification proof of English proficiency, like IELTS/TOEFL, ready.

BSc in Cardiac Perfusion Technology: Admissions

Whether applying for a central university, a private college, or a government institute, the steps are similar with a few variations.

1

Research and create a list

Explore and shortlist colleges, and determine if there is an entrance exam.

- While searching, gather information on the syllabus of the program, and see if the syllabus aligns with your skills and helps you achieve the goal in educational and career paths.
- Research colleges by location, faculties, facilities, fee structure, internship opportunities, and scholarships.

2

Check eligibility criteria

- Education qualification: open to Science stream students with a minimum of 50% marks in the board examination, with English subject as a prerequisite.
- The minimum age required by several universities is 17 years by the start of the academic session.

3

Complete the application process

- Visit the official website of the college/university. Complete the registration process and fill out the application forms. For online application, upload scanned copies of your documents (10th and 12th mark sheets, ID proof, passport-size photo, etc.), usually in PDF and JPG format.
- The candidate needs to register their commonly used mobile number/email ID
- Some universities have offline application forms; visit the universities and complete the admission process.
- Pay the application fee online
- Prepare and complete your entrance exam.

4

Merit list and interview

- Government university admissions are based strictly on the merit index obtained in the Entrance Test for Allied Health Sciences.
- And a few private universities have merit lists based on the board results.
- A few private institutions have direct admission. Register yourself on the official website, fill out all the details, and submit the

digital documents on the portal.

- Some universities also have an interview for admission to the course.

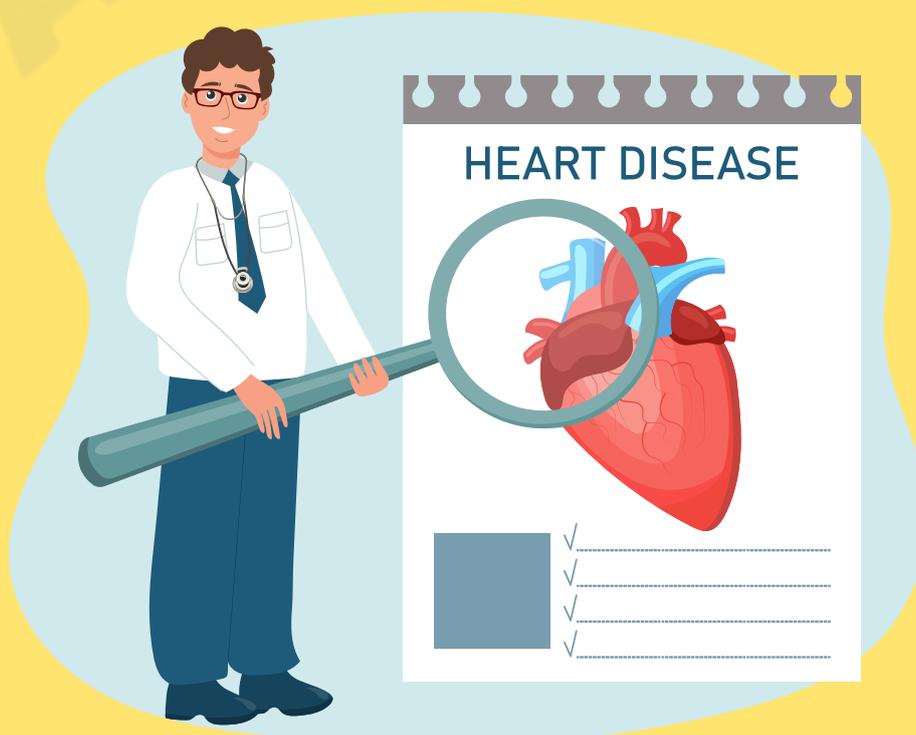
5

Final Admission

- Submit your original documents for verification. (12th marksheet, 10th marksheet, school leaving certificate, birth certificate)
- Proof of PWD/ESW/Caste Certificate, if applicable.
- Always carry a passport-size photograph; it's essential to complete the application.
- Complete the fee payment.

Documents typically required

- (Std X) Pass Certificate or its equivalent.
- (Std XI) or its equivalent marksheet.
- (Std XII) or its equivalent mark card.
- Diploma marks card for lateral entry candidates only.
- SC/ST/OBC certificate from the appropriate authority. (Issued within the last 2 years)
- Aadhar card photocopy
- Medical fitness certificate
- Transfer certificate
- Deputation certificate (if the candidate is deputed by an organization)



BSc in Cardiac Perfusion Technology: Top Colleges and Fees

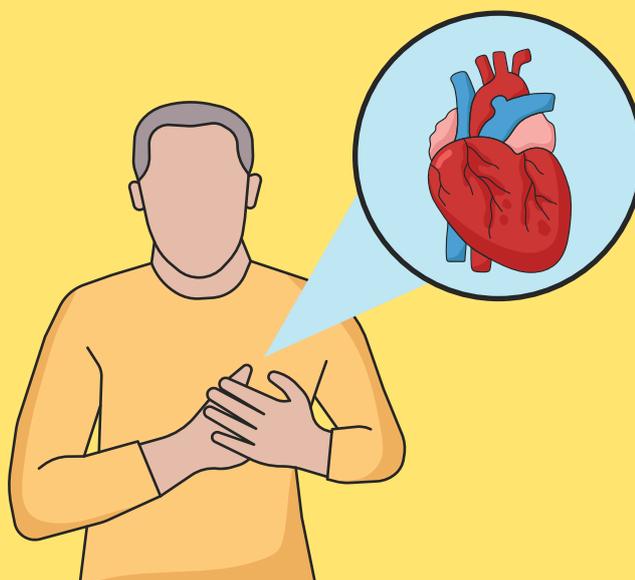
State	College Name	Ownership	Course Name	Total Course Fees(₹)
Andhra Pradesh	Dr YSR University of Health Sciences, Vijayawada	Public	B.Sc Perfusion Technology	16,500
Andhra Pradesh	Sri Venkateswara Institute of Medical Sciences, Tirupati	Public	B.Sc Cardiac Pulmonary Perfusion Technology	116,000
Andhra Pradesh	Guntur Medical College, Guntur	Public	B.Sc Perfusion Technology	
Andhra Pradesh	Saveetha Amaravati University, Vijayawada	Private	B.Sc Cardio Vascular Perfusion Therapy	
Gujarat	MK University, Patan	Private	B.Sc Perfusion Technology	
Haryana	Pandit Bhagwat Dayal Sharma University of Health Sciences, Rohtak	Public	B.Sc Perfusion Technology	
Karnataka	Sri Jayadeva Institute of Cardiovascular Sciences and Research, Bangalore	Public	B.Sc Perfusion Technology	44,370
Karnataka	St Johns Medical College, Bangalore	Private	B.Sc Perfusion Technology	77,470
Karnataka	KLE Academy of Higher Education and Research, Belgaum	Private	B.Sc Perfusion Technology	211,000
Karnataka	Sri Devaraj Urs Academy of Higher Education and Research, Tamaka	Private	B.Sc Cardiac Perfusion Technology	324,000
Karnataka	Yenepoya Medical College, Mangalore	Private	B.Sc Perfusion Technology	450,000
Karnataka	Sri Adarsha College of Nursing, Udupi	Private	B.Sc Perfusion technology	520,000
Karnataka	Manipal College of Health Professions, Manipal	Private	B.Sc Perfusion Technology	546,000
Karnataka	Yenepoya School of Allied Health Sciences, Mangaluru	Private	B.Sc Perfusion Technology	620,000
Karnataka	JSS Medical College, Mysore	Private	B.Sc Perfusion Technology	4,92,900
Karnataka	BLDE University, Bijapur	Private	B.Sc Perfusion Technology	
Karnataka	Cauvery Institute of Health Sciences, Mysuru	Private	B.Sc Perfusion Technology	

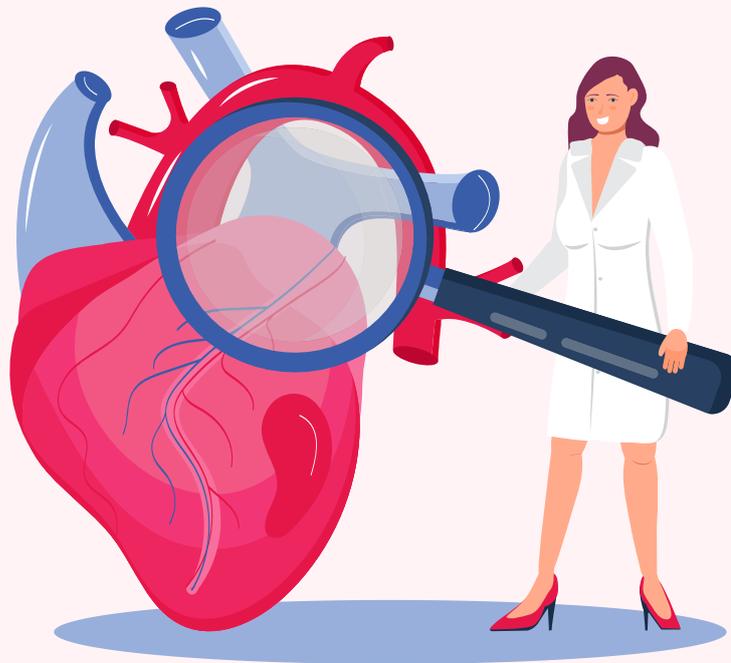
State	College Name	Ownership	Course Name	Total Course Fees(₹)
Karnataka	Christian College, Bangalore	Private	B.Sc Perfusion Technology	
Karnataka	East Point College of Medical Sciences and Research Centre, Bangalore	Private	B.Sc Perfusion Technology	
Karnataka	Jawaharlal Nehru Medical College, Belgaum	Private	B.Sc Perfusion Technology	
Karnataka	Nanjappa institute of Allied Health Sciences, Shivamogga	Private	B.Sc Perfusion Technology	
Karnataka	Narayana Hrudayalaya Institute of Physiotherapy, Bengaluru	Private	B.Sc Perfusion Technology	
Karnataka	Nethaji Institute of Allied Health Sciences, Mangaluru	Private	B.Sc Perfusion Technology	
Karnataka	RajaRajeshwari Medical College and Hospital, Bangalore	Private	B.Sc Perfusion Technology	
Karnataka	Sapthagiri Institute of Medical Sciences and Research Center, Bangalore	Private	B.Sc Perfusion Technology	
Karnataka	Shridevi Institute of Paramedical Science, Tumkur	Private	B.Sc Perfusion Technology	
Karnataka	Sri Sathya Sai Institute of Higher Medical Sciences, Whitefield	Private	B.Sc Perfusion Technology	
Karnataka	St John's National Academy of Health Sciences, Bangalore	Private	B. Sc Cardiac Perfusion Technology	
Kerala	Amrita Vishwa Vidyapeetham, Kochi Campus	Private	B. Sc Cardiac Perfusion Technology	638,450
Kerala	Government Medical College, Kozhikode	Public	B.Sc Perfusion Technology	
Kerala	KMCT College of Allied Health Science, Kozhikode	Private	B.Sc Perfusion Technology	
Kerala	MIMS College of Allied Health Sciences, Malappuram	Private	B.Sc Perfusion Technology	
Maharashtra	Krishna Vishwa Vidyapeeth, Karad	Private	B.Sc Perfusion Technology	165,000
Maharashtra	MGM School of Biomedical Sciences, Navi Mumbai	Private	B.Sc Perfusion Technology	348,500
Maharashtra	Dr DY Patil Medical College, Navi Mumbai	Private	B.Sc Cardiac Perfusion Technology	

State	College Name	Ownership	Course Name	Total Course Fees(₹)
Nagaland	Global Open University, Dimapur	Private	B.Sc Cardio Pulmonary Perfusion Care Technology	24,125
Punjab	Dayanand Medical College and Hospital, Ludhiana	Private	B.Sc Perfusion Technology	
Rajasthan	Singhania University, Jhunjhunu	Private	B.Sc Perfusion Technology	60,000
Rajasthan	NIMS College of Paramedical Technology, NIMS University, Jaipur	Private	B.Sc Perfusion Technology	210,000
Rajasthan	NIMS College of Paramedical Technology, NIMS University, Jaipur	Private	B.Sc Cardiac Perfusion Technology	255,000
Rajasthan	NIMS University, Jaipur	Private	B.Sc Perfusion Technology	280,000
Rajasthan	NIMS University, Jaipur	Private	B.Sc Cardiac Perfusion Technology	340,000
Rajasthan	Geetanjali Medical College and Hospital, Udaipur	Private	B.Sc Cardiac Perfusion	
Tamil Nadu	Vinayaka Mission's Research Foundation, Salem	Private	B.Sc Perfusion Technology	300,000
Tamil Nadu	Dr MGR Educational and Research Institute, Chennai	Private	B.Sc Cardio and Perfusion Technology	450,000
Tamil Nadu	Noorul Islam Centre For Higher Education, Kanyakumari	Private	B.Sc Perfusion Technology	450,000
Tamil Nadu	SRM Medical College Hospital and Research Centre, Chennai	Private	B.Sc Cardio Perfusion Technology	525,000
Tamil Nadu	Dhanalakshmi Srinivasan University, Tiruchirappalli	Private	B.Sc Cardio Pulmonary and Perfusion Technology	541,000
Tamil Nadu	Bhaarath Medical College and Hospital, Chennai	Private	B.Sc Cardiac Perfusion Technology	600,000
Tamil Nadu	Hindu Mission Hospital, Chennai	Private	B.Sc Cardio Pulmonary Perfusion Care Technology	
Tamil Nadu	Hindustan Institute of Technology and Science, Chennai	Private	B.Sc Perfusion Technology	
Tamil Nadu	MMM College of Health Sciences, Chennai	Private	B.Sc Cardio Pulmonary and Perfusion Care Technology	

State	College Name	Ownership	Course Name	Total Course Fees(₹)
Tamil Nadu	Nandha College of Allied Health Sciences, Erode	Private	B.Sc Cardio Pulmonary Perfusion Care Technology	
Tamil Nadu	PPG Institute of Allied Health Sciences, Coimbatore	Private	B.Sc Cardio Pulmonary Perfusion Care Technology	
Tamil Nadu	PSG Institute of Medical Sciences and Research, Peelamedu	Private	B.Sc Cardiac Perfusion Technology	
Tamil Nadu	Sri Lakshmi College of Allied Health Sciences, Coimbatore	Private	B.Sc Cardio Pulmonary Perfusion Care Technology	
Tamil Nadu	St Joseph University, Chennai	Private	B.Sc CardioVascular Perfusion Technology Hons	
Tamil Nadu	Tirunelveli Medical College, Tirunelveli	Public	B.Sc Cardiac Perfusion Technology	
Tamil Nadu	Trichy SRM Medical College Hospital and Research Centre, Irungalur	Private	B.Sc Cardio Pulmonary Perfusion Technology	
Tamil Nadu	VG Institute of Paramedical Sciences, Coimbatore	Private	B.Sc Cardio Pulmonary Perfusion Technology	
Telangana	Nizams Institute of Medical Sciences, Hyderabad	Public	B.Sc Perfusion Technology	129,750
Telangana	Guru Nanak University, Hyderabad	Private	B.Sc Cardiac and Perfusion Technology	
West Bengal	The West Bengal University of Health Sciences, Kolkata	Public	B.Sc Perfusion Technology	

Data Source - Institute Websites





Career Opportunities After BSc in Cardiac Perfusion Technology

Learn the most promising career pathways after a BSc in Cardiac Perfusion Technology degree, the responsibilities, job opportunities, and future Scope in the field, as well as what institutions offer such roles.

1. **A Cardiac Perfusionist:**

You'll work closely with cardiac surgeons, anesthesiologists, and other healthcare team members in operation theatres, ensuring the patient's circulatory and respiratory systems continue to function during major surgeries and Your primary responsibility will be to operate and monitor heart-lung machines and other extracorporeal devices, maintain blood flow and oxygenation, manage critical physiological parameters, and administer medications or blood products as needed.

2. **Clinical Perfusionist:**

You will be responsible for advanced patient monitoring, administration of blood products and medications, and direct collaboration with surgical teams to ensure optimal patient outcomes.

3. **Cardiac OT Technician / Operation Theatre Assistant:**

Your role is to assist in setting up and maintaining a sterile environment in the cardiac operating room. Support during Cardiac OT setup, prepares equipment, assists during surgery, ensures, and maintains consumable stock.

4. Perfument Equipment Application Specialist:

You can work with medical devices or MED TECH companies to demonstrate, install, test, troubleshoot perfusion devices, and train in training centers and hospitals.

5. Perfusion Research Assistant:

Your role contributes to clinical research projects, data collection, and the development of new perfusion techniques and technologies, often in collaboration with academic institutions, research organisations. Join the Indian Council of Medical Research (ICMR) or a private medical college for career growth.

6. ICU & ECMO Specialist:

You will manage patients requiring extracorporeal membrane oxygenation (ECMO) support, monitor complex life-support systems, and collaborate with multidisciplinary teams to provide advanced critical care.

7. Teaching Faculty or Lab Demonstrator:

Opportunities are available in educational institutions, hospitals, and Labs. Where you can educate and empower upcoming students also plays an active role in curriculum development.

8. Cardiac Surgery Assistant:

This role is critical; you assist cardiac surgeons during surgeries, ensuring the proper functioning of perfusion devices and patient management.

9. Hospital Administrator / OT Manager (with additional degree):

With an additional management degree, you can monitor and oversee the functioning of OT, implementation of safety protocols, and supervise the staff.

10. Cardiac Outreach Program Coordinator:

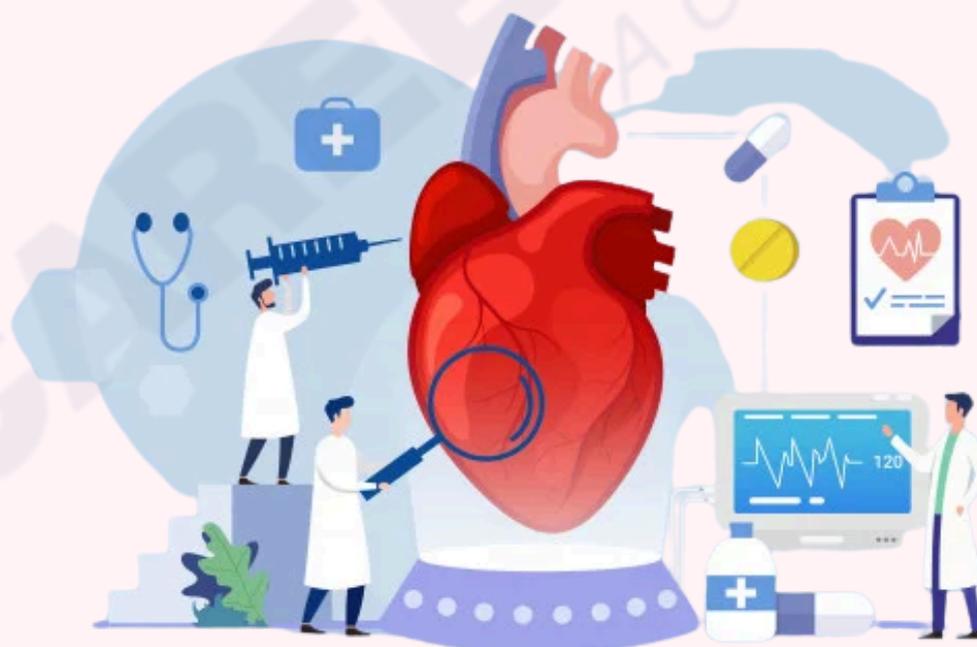
Organise and conduct community outreach programs to voice out for awareness about cardiovascular problems, precautions, and treatment.

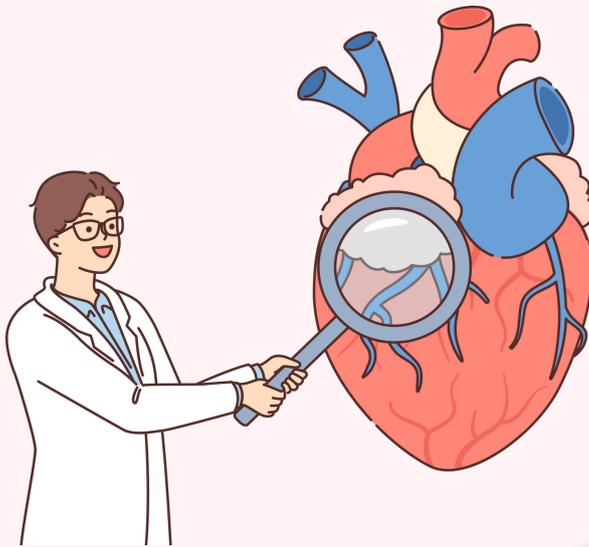
11. Cardiac OT Technologist:

Assist in diagnosing heart conditions, performing diagnostic tests, supporting surgeons, and monitoring patients in cardiac procedures. You can join any critical care units or hospitals.

EXPECTED SALARY RANGE

Job Role	Entry-Level Salary (Annual)
Cardiac OT Technician	₹2.0 – ₹3.5 LPA
Cardiac Perfusionist / Clinical Perfusionist	₹3.5 – ₹6.0 LPA
Perfusion Equipment Application Specialist	₹3.0 – ₹5.0 LPA
ICU & ECMO Specialist	₹4.0 – ₹7.0 LPA
Teaching Faculty / Lab Demonstrator	₹2.5 – ₹4.5 LPA
Hospital Administrator with a postgraduate degree in management.	₹4.5 – ₹7.5 LPA
Cardiac Outreach Program Coordinator	₹3.0 – ₹5.5 LPA





BSc in Cardiac Perfusion Technology Scope Abroad

A BSc in Cardiac Perfusion Technology degree opens a lot of exciting opportunities not only in India but also globally. Countries with advanced healthcare systems Canada, the UK, Australia, the United States, and the Middle East, have a high demand for skilled perfusionists or roles in cardiac surgery, ECMO support, and critical care units.

You can join the Critical Care unit or transplant centres and work under supervision until you have the necessary qualification or state licensing. Multiple MED-TECH companies offer the role of Cardiac Outreach Program Coordinator to bring awareness and collaborate with organisations. Many universities and research facilities provide opportunities for research and teaching.

To practice internationally, graduates typically need to obtain additional certifications or licensing. You need a certification from the American Board of Cardiovascular Perfusion (ABCP) in the USA or the American Board of Cardiovascular Perfusion (CCP) in the US.

Why Consider Abroad Opportunities?

The value of paramedical professionals working with heart and lung technology and machines is increasing in global organisations. The job outlook is strong, with competitive salaries and opportunities for career advancement into administration, education, or research. Working abroad exposes you to the latest technologies, diverse surgical techniques, and advanced clinical protocols, significantly enhancing your expertise and employability. Salaries and benefits for perfusionists are often higher abroad, with opportunities to progress into senior clinical, research, or academic positions. Beyond financial benefits, working in multicultural environments broadens clinical skills, enhances communication, broadens your professional network, and builds global confidence, making you versatile.

Many universities abroad also offer pathways to combine study and work, such as Master's programs with clinical internships. Ethical work environments, structured healthcare protocols, and patient safety standards are often better enforced, providing a more fulfilling professional experience.



Countries With High Demand for BSc Cardiac Perfusion Professionals

Country	Opportunities Available	Additional Requirements
Canada	Cardiac units in hospitals, pediatric ICUs, and med-tech companies	Postgraduate or Doctoral with provisional health licensing
USA	Cardiac centers, transplant hospitals, ICU/ECMO units, med-tech firms	Master's + clinical supervision and state license.
UK	NHS hospitals, private cardiology institutes, and university-affiliated perfusion schools.	HCPC registration with a postgraduate degree and clinical internship.
UAE	Cardiac hospitals, multispecialty ICUs, and med-tech companies	MOH/DHA/HAAD license, a Bachelor's degree sufficient experience.
Australia	Transplant units, critical care hospitals, cardiac surgery centers, and research institutions	Master's + supervised training + registration under AHPRA
New Zealand	Cardiac units, transplant hospitals, and educational institutions	Registration with the Medical Sciences Council of NZ, IELTS, is sometimes required

Popular Higher Study Options Abroad after Bsc in Cardiac Perfusion Technology

After completing a BSc in Cardiac Perfusion Technology, higher education increases your scope and enhances your expertise.

- MSc in Clinical Perfusion Science:** If you want to advance your career in ECMO and related technologies, and deepen your expertise in managing cardiopulmonary bypass through a Master's in Science in Clinical Perfusion Science. The curriculum is designed to equip students with advanced knowledge in perfusion science, research skills, and eligibility for professional accreditation, such as with the Society of Clinical Perfusion Scientists of Great Britain and Ireland.
- M.Sc. in Cardiopulmonary Science / Cardiac Technology/ M.Sc. in Critical Care or Intensive Care Technology:** The program covers diagnostic techniques and cardiac procedure support with a focus on subjects introducing technology, human physiology, and critical management care.
- M.Sc. in Cardiac Perfusion Technology:** This master's program is designed to provide students with comprehensive knowledge and skills in the theory and practical aspects of perfusion technology in the field of cardiovascular perfusion.

- **M.Sc. in Biomedical Engineering (Cardiovascular Devices):** This course is a combination of theory, hands-on experience, and research. It is designed for individuals inclined towards designing or working with medical devices, like ECMO and heart-lung machines.
- **Master of Public Health/Master's in Health Administration (MHA):** With leadership qualities, dive into the course to learn public health policy, health promotion strategies, and program implementation
- **Postgraduate Diploma in ECMO or Extracorporeal Life Support:** Provides specialised training in ECMO procedures, circuit handling, emergency troubleshooting, and critical care support. This short-term but intensive course is highly valued in ICUs and cardiac transplant units, with training offered by ELSO (USA) and Regensburg University Hospital (Germany).

What You'll Need to Work Abroad?

- Strong academic performance in BSc
- Offer letter from the organisation
- English/ language proficiency test scores (IELTS/TOEFL)
- Credential assessment (WES for Canada/USA, UK NARIC, etc.)
- Work permit or student visa
- Police verification
- Sometimes, additional local certifications or a master's degree

Soft Skills That Matter Internationally

- Strong communication skills
- Cultural sensitivity and ethical conduct
- Analytical thinking
- Ability to work in diverse teams
- Adaptability to new legal systems and technologies

BSc in Cardiac Perfusion Technology: FAQs



Q1. What is a BSc in Cardiac Perfusion Technology?

A: BSc in Cardiac Perfusion Technology is a 4-year undergraduate program that prepares students to become experts in operating heart-lung machines to support cardiac surgeries and maintain a patient's circulatory and respiratory functions during procedures.

Q2. Do I need to appear for NEET to get into this course?

A: As BSc in Cardiac Perfusion Technology is a paramedical course, most universities don't require the NEET exam, but some medical-oriented universities might ask as an eligibility.

Q3. What subjects should I have in Class 12 to be eligible?

A: Students from Science Streams are eligible to enroll in the BSc in Cardiac Perfusion Technology Program. English is a prerequisite for admission to many universities.

Q4. What are the Master's programs available after completing a BSc in Cardiac Perfusion Technology degree?

A: Students can pursue M.Sc. in Clinical Perfusion Science, M.Sc. in Cardiopulmonary Science, M.Sc. in Critical Care Technology, or M.Sc. in Biomedical Engineering for advanced clinical or technical roles. Other options include a Postgraduate Diploma in ECMO, a Master of Public Health (MPH), or a Master's in Health Administration (MHA) for careers in healthcare leadership, research, or global health programs.

Q5. What kind of job opportunities can I get after completing the BSc in Cardiac Perfusion Technology course?

A: These programs prepare graduates for senior clinical roles, teaching positions, and research opportunities in cardiac care settings. You can work as a Cardiac OT Technician, Cardiac Outreach Program Coordinator in multispecialty hospitals, private and government medical institutions, or critical care centres.

Q6. Do hospitals hire fresh graduates?

A: Graduates can join for junior roles, especially those who have completed clinical internships and have hands-on training

Q7. Can I get a government job with this degree?

A: Yes. You can apply for jobs in the Defense Services (with specialised recruitment), Research and Academic Institutions, and the government hospitals.

Q8. Can I work abroad after completing a BSc in India?

A: Yes, but you are required to:

- Clear local certification exams
- Complete a master's degree or a bridge course
- Pass English proficiency tests like IELTS or TOEFL
- Get your degree verified by credentialing bodies (like WES)
- State registration.

Q9. What are the biggest challenges in this career?

A: Some challenges may include:

- A Bachelor's degree alone is not enough; for better career growth, always have a plan for higher education. Additional certification, a diploma, or a Master's degree can help you with more job prospects
- Limited awareness.

Q10. What is the starting salary after a BSc in cardiac Perfusion Technology?

A: The salary range can vary from the government to the private sector. Usually, freshers can get 3 LPA to 6 LPA.



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