

श्री चित्रा तिरुनाल आयुर्विज्ञान और प्रौद्योगिकी संस्थान, त्रिवेंद्रम

केरल- 695 011, भारत

(एक राष्ट्रीय महत्व का संस्थान, विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार)

SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES AND TECHNOLOGY, TRIVANDRUM

KERALA - 695011, INDIA

(An institution of National Importance, Department of Science and Technology, Govt. of India)

विवरण पत्रिका PROSPECTUS

शैक्षणिक कार्यक्रम-पीएचडी

ACADEMIC PROGRAM-PhD

(एसटी उम्मीदवारों के लिए विशेष विज्ञापन)

(Special Advertisement for ST Candidates)

सत्र-जनवरी 2022

SESSION – January 2022

www.sctimst.ac.in



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INTRODUCTION



an Institution of National Importance with the status of a University under the Department of Science and Technology, Govt. of India by an Act of Parliament (Act 52 of 1980). The joint culture of medicine and technology that the Institute pioneered more than four decades ago has come of age and gained unprecedented acceptance in India. The Institute focuses on advanced super specialty postgraduate training programs in medical specialties and health research of social relevance and development of high quality, medical devices and technology of industrial significance. The emphasis is on development of activities less readily available in the country such as interventional radiology, interventional stroke care, cardiac electrophysiology, advanced cardiothoracic and vascular surgery, surgery for epilepsy, micro neurosurgery, deep brain stimulation for movement disorders, development of new biomedical devices and products, evaluation of medical devices to global specifications, new academic programs and health science research and training.

The Institute has three wings – the Hospital Wing, the Biomedical Technology Wing and the Achutha Menon Centre for Health Science Studies Wing. Excellent research and learning opportunities are available at these wings. The Institute has a dedicated team of clinicians, scientists and engineers devoted to high-quality medical research, biomedical research and technological development and public health research.

The Institute's objectives are:

- Promote biomedical engineering and technology.
- Provide and demonstrate high standards of patient care in advanced medical specialties.
- Develop innovative postgraduate training programs of the highest quality in advanced medical specialties and biomedical engineering and technology.
- Participate in public health reforms through research, training and interventions.

The Sree Chitra Tirunal Institute for Medical Sciences & Technology Act, 1980, empowers the Institute to offer post-graduate programs in medical sciences and biomedical engineering and stipulates that the medical degrees and diplomas granted by the Institute shall be recognized medical qualifications for the purpose of the Indian Medical Council Act and that they shall be deemed to be included in the First Schedule to that Act.



IMPORTANT DATES

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Admission Notification	8 th October 2021
Availability of online Application	08.10.2021 to 30.10.2021 (up to 5.00 pm)
Hall ticket download	Ten days prior to the entrance examination
PhD Registration period	1 st January 2022 to 30 th June 2022
Director's welcome address	10 th January 2022
SCHEDULE OF ENTRANCE EXAM	INATIONS AND FINAL INTERVIEW
PhD program	The written test and interview will be conducted between 8th of November 2021 and 18th of November 2021. All applicants are requested to visit the online application portal as well as the Institute website 'www.sctimst.ac.in' for updates. Intimation regarding hall ticket will be sent to your registered email id only.
Type of Objective Questions / Marking Scheme Correct Answer	Multiple Choice Questions (MCQs) /One mark (+)1 for correct answer (No negative marks for Wrong answers/ Marked for Review/ Not Answered questions)
Method of resolving ties	The tie case will be resolved according to age (Date of birth), the older candidate shall get preference over the younger one.

Interview: The date and time of interview will be intimated along with the exam result put up in the website.

The final selection list will be put up immediately after the interview.

No electronic gadgets including cell phones/watches etc., will be allowed in the examination hall.



To empower ST communities, SCTIMST is offering five PhD fellowships for candidates belonging to ST community. The support includes <u>monthly scholarship</u>, contingency grant, research support for purchase of chemicals, <u>laptop</u>, travelling allowance, registration fee for attending conferences, and <u>expenses related to Paper publication</u>. The Fellowships will be available for those who are admitted to PhD program at SCTIMST only. Fellowships will be for a maximum period of 5 years as per the rules of the Institute.

Institute promotes interdisciplinary research and offers PhD program in the following major research areas.

Physical Sciences

Biophotonics, plasma coating, Nano biotechnology, Bioimaging, Biomedical and Biomaterial sciences.

Chemical Sciences

Polymer synthesis and characterization, Polymer processing, Smart polymers, Interpenetrating polymer networks, Dental polymers, Surface modification of polymeric devices, Radiopaque polymers.

Biological Sciences/Biomedical Sciences

Biochemistry, Cell Biology, Cellular and Molecular Cardiology, Neurobiology, Microbial Technology, Pathology, Physiology, Toxicology, Thrombosis, Implant Biology, Tissue Engineering & Regenerative Technologies, Adult stem cells & Regenerative medicine, 3-D Construction of Tissue substitutes.

Bioengineering

Artificial Organs, Biosensors, Bioinstrumentation, Medical Device Technology, Functional neuroimaging, Magnetic Resonance Imaging, Medical image processing.

Biomaterial Science and Technology

Bioceramics, Dental materials, Material tissue interactions, Drug delivery & sensing, Biomedical polymers, Scaffolds for tissue engineering.

Health Sciences (Full Time)

Epidemiology, Gender issues in Health, Health Policy, Heath Management, Health Systems, Public Health Informatics, GIS in Public Health.

Medical Sciences

Neuro Sciences, Cardiac Sciences, Imaging Sciences and Interventional Radiology.

MINIMUM EDUCATIONAL QUALIFICATIONS FOR ADMISSION



Physical Sciences: Post graduate degree in Physics (All branches)

Chemical Sciences: Post graduate degree in Chemistry (All branches)

Biological Sciences/Biomedical Sciences: Post graduate degree in any branch of Life Sciences (Physiology, Biochemistry, Biotechnology, Zoology, Bioinformatics, Plant sciences etc.) / dentistry.

Bioengineering: Post graduate degree in Polymer Engineering/Technology, Material Science, Biomedical Engineering, Instrumentation Engineering, Biotechnology, Clinical Engineering, Biomedical Engineering, Electronics and Communication Engineering, Electrical & Electronics Engineering, Computer Science or Information Technology.

Biomaterial Science and Technology: MPhil (Biomedical Technology), Post graduate degree in Physics, Chemistry, Polymer Chemistry, Polymer Science, Material Science, Biotechnology or Veterinary Science.

Health Sciences: Post graduate degree in Modern Medicine, Public Health, Dentistry, Nursing, Veterinary Sciences, Demography, Economics, Sociology, Social Work, Political Science, Business Management (MBA), Public Administration, and Statistics. Other post graduate degrees may be approved by the Academic Committee after examining the merits of the suggestion.

Minimum marks required to apply:

Consistently good academic record with 55% marks in undergraduate and post graduate degree examinations.

Medical Sciences: MBBS degree from any university recognized by National Medical Commission/ erstwhile Medical Council of India (MCI). Candidates should have completed one-year compulsory rotating internship or its equivalent as recognized by NMC/MCI after passing the final year MBBS examination. Candidates should have full registration with a State Medical Council. Candidates with Post Graduate Medical qualifications (MD/MS/DNB) can also apply but no special reservation or preference will be given. Applicants should have 55% of marks in MBBS Degree and need to be holders of National Level fellowship from UGC/CSIR/ICMR.

Candidates should not have more than 2 attempts in MBBS program.

Available areas in Medical Sciences:

- (a) Neuro sciences
- (b) Cardiac Sciences and
- (c) Imaging Sciences & Interventional Radiology.



Method of selection

The selection of research scholars will be based on the performance in the written test and interview. Individual JRF holders (UGC, CSIR, ICMR and DBT) or MPhil (Biomedical Technology) degree holders of SCTIMST are exempted from written test, and their selection will be on the basis of interview only. Individual KSCSTE JRF, INSPIRE holders have to qualify in the written test and interview of this Institute.

Candidates awarded Senior Research Fellowships (SRF) from other sources (KSCSTE, UGC, CSIR, ICMR, etc.) have to qualify in the written test and interview conducted by the Institute.

Candidates must upload a **Research Proposal** (about 1000 words) and a **Statement of Purpose for undertaking a research career** (about 300 to 500 words) while submitting their application.

The Institute reserves its right to short list candidates based on the academic merit and scientific records of the applicants and availability of research guides every year.

The list of approved guides and their areas of-research interest is available at:

https://sctimst.ac.in/Academic%20and%20Research/Academic/Guidelines,%20Manuals,%20Forms/resources/PhD_Guides_with_Area_of_Speciality_2019.p df.

Age limit

There is no age limit for admission to the PhD Program.

Number of fellowships and reservation

Total five fellowships are available for the ST candidates, however, PhD registration is not guaranteed for the candidates who are selected for admission. Selected candidates are expected to interact with the recognized guides of the Institute and discuss with them regarding their research interest. A guide may accept a student based on the availability of slot, his/her areas of specialization, research interest of the student, availability of research grants and financial support available for the student. Candidates belong to reservation category are advised to contact the student reservation cell/nodal officer for scholarships at SCTIMST for more information about the fellowship.

Monthly Fellowship & other benefits

Description	JRF	SRF (Assessment after two years)	
Duration	1—2 years	3—5 years	
Fellowship	Rs.31,000/- p.m.	Rs.35,000/- p.m.	
HRA	As per Institute rules		
Contingency	Rs.20,000/- per year		
Research support	Rs.1,00,000/- per year		
TA/Regn. fee for attending conferences/paper publication	, , , , , , , , , , , , , , , , , , , ,		
Purchase of Lap top (Lap top will be institute property)			

Fee Structure for ST candidates- PhD program

Particulars	PhD
Application fee	Rs.1,200/-
Admission fee	Rs. 2,000
Tuition Fee	Rs.20,000 (per year)
Caution Deposit	Rs.10,000 (Refundable)
Comprehensive exam. fee	Rs.6,000
Thesis evaluation fee	Rs.15,000
Identity Card	Rs.220
Library	Rs.1,000
Student Welfare Fund	Rs.1,000
Certificates	Rs.1,000



PhD Manual

For details about PhD program, please refer PhD manual (General), PhD manual (Health Sciences) & SOP for students available in our website www.sctimst.ac.in

(http://sctimst.ac.in/Academic%20and%20Research/Academic/Guidelines,%20Manuals,%20Forms/)

The Biomedical Technology (BMT) Wing of SCTIMST with the following objectives have the facilities to do the PhD program apart from Hospital wing and AMCHSS wing of SCTIMST.

BIOMEDICAL TECHNOLOGY (BMT) WING

Objectives

Promotion of Biomedical Engineering and Technology and development of post-graduate training programs of the highest quality in this area.

The present vision of the wing is to:

- Develop technologies which are competitive in the international market
- Carry out research in frontier areas of health care technology
- Provide testing support conforming to national/international standards

A team of scientists, engineers and technical staff work here in multidisciplinary areas, ranging from biomaterials development and characterization to medical devices development, evaluation and technology transfer. Over the last four decades, a number of products have been successfully developed and commercialized, catalyzing the growth of medical device industry in India.

In the current context of globalization, a quality management system for its testing services conforming to ISO/IEC 17025 has been implemented, enabling international acceptance of test results. This system is now accredited by *Le Comite français d'accreditation* (COFRAC) of France.

High quality research and publications have led to peer recognition as a valued scientific research institution nationally and internationally. This has resulted in many international collaborative research programs.

Research opportunities and facilities:

Biomedical Technology Wing aims to bring advances in research outcomes of the laboratory into the clinical setting to benefit patients at the earliest opportunity. The exceptional infrastructure facilitated in the campus underpins biomedical research and enables advances to improve the patient care. Institute has focused on creating resources to develop technologies that are cost- effective, accessible and responsive to the clinical needs of our population.



The material research group has proven record of research towards synthesis and characterization of biomedical polymers, their characterization and testing for biocompatibility to qualify the material for medical applications. The engineering & device development group has successfully developed and commercialized critical products which include blood bag, artificial heart valve, and oxygenator.

Major programs include development of materials for orthopedic and dental applications, cardiovascular device fabrication, drug delivery systems, nanomedicine, sensors and tissue engineering scaffolds. Biological research focuses on culture and differentiation of adult stem cells for regenerative medicine, *invitro* tissue engineering, development of bio therapeutics and diagnostic reagents.

Sophisticated analytical equipment are available in the campus for characterization of materials which include scanning and transmission electron microscopes, Raman & FT-Raman spectroscope, atomic force microscope, ICP, X-ray diffraction, micro computerized tomography, chromatography systems such as HPLC, gas chromatography and LCMS. Other routinely used and well-maintained equipment and facilities are available in all labs.

Important biological research equipment available are confocal microscope, environmental SEM, 3D bioprinting of tissues, 3D bioprinter, fluorescent activated cell sorter (FACS), Real Time PCR, ultra-centrifuge and continuous flow centrifuge, Imaging systems for fluorescence/ luminescence/ radioisotope detection, live cell imaging, and facilities for proteomic and genomic analysis etc. apart from routinely used equipment that are available in almost all labs. Excellent cell culture and analysis facilities are present in almost all cell biology research labs.

The well maintained small and large animal experimental facility with excellent animal operating rooms provides the *in vivo* evaluation support. Toxicological evaluation of materials is done under GLP platform. Tissue analysis is done to evaluate the results of experimental research using state-of-art histological/ immunochemical/imaging techniques facilitated with sophisticated sample processing and analysis tools.

Above all, BMT wing harness the academic and technological expertise of its multidisciplinary research faculty to conduct high-quality, patient-focused translational research. This involves taking research from the laboratory to the patient's bedside.



ACHUTHA MENON CENTRE FOR HEALTH SCIENCE STUDIES (AMCHSS)

AMCHSS, the Public Health and Health Sciences Wing of Sree Chitra Tirunal Institute for Medical Sciences and Technology is devoted to Public Health, and Social Sciences in relation to health care and development. It started the Master of Public Health (MPH) Program in January 1997 PhD Program in 2003 and Diploma in Public Health (DPH) in 2005. Central to its mission are:

1) Educating students to assume leadership roles in public health policy and practice; 2) Advancing knowledge of the social, biological, economic and behavioral dimensions of health and to perform costing, costefficiency, and epidemiological studies and policy analysis; and 3) To provide technical expertise and consultancy service on public health issues to the public, NGO and the private sector. The Ministry of Health and Family Welfare, Govt. of India has accepted this Centre as a "Centre of Excellence for Public Health

Training". There is part time and full time PhD program in Health Sciences, however, the present fellowship is available only for full time PhD program. There is no External or part time Registration for the PhD program in any other areas.

PhD program is conducted at all three wings of SCTIMST.



ACTS WARRANTING REMOVAL OF THE STUDENT

The services of the student may be terminated as follows:

- a. By the Director of the Institute without any previous notice if the Director of the Institute is satisfied on medical evidence that the student is unfit and is likely for a considerable period to continue unfit by the reason of ill health for the discharge of his/her duties PROVIDED ALWAYS that the decision of the Director that the student is unfit and is likely to continue unfit, shall be conclusive and binding on him/her.
- b. By the Director of the Institute without any previous notice, if the student shall be guilty of any insubordination, interference or other misconduct or any breach or nonperformance of any of the provisions of the agreement, or of any rules pertaining to the Institute, PROVIDED ALWAYS that the decision of the Director of the Institute in this behalf shall be conclusive and binding on him/ her.
- c. Unsatisfactory disciplinary conduct during the program at SCTIMST.
- d. Furnishing willfully or knowingly false/fake particulars for admission to SCTIMST.
- e. The decision of the Director, SCTIMST shall be final as to whether any Student comes within the ambit of condition (a) or (b)] above.

APPLICATION PROCEDURE



Application form and application fee to be submitted through ONLINE MODE ONLY (**Website: www.sctimst.ac.in**).

All bank charges to be borne by the applicant.

Application fee for PhD program	₹1200 for ST candidates

Hard copy of the duly signed online generated application form along with original and self-attested copies of the certificates proving age, essential qualifications, Medical/Nursing council registration certificate, proof of caste certificate; if eligible for reservation, no objection certificate; if employed, proof of fee payment and other relevant documents are to be produced at the time of admission.

INSTRUCTIONS

- 1. Read the instructions available in the website before filling the application form.
- 2. Fill up the Application Form on-line carefully.
- 3. If you are an employee of a State or Central Government or Public Sector Undertaking, **no objection certificate** should be obtained from the employer prior to the submission of online application. The application will not be considered if NOC is not uploaded with the application.
- 4. No intimation will be sent to candidates not called for Entrance Examination or not selected and no correspondence on this subject will be entertained.
- 5. The rules are subject to change in accordance with decisions of the Institute taken from time to time.
- 6. All the correspondence will be through the registered email/mobile phone.

Check list of documents to be uploaded at the time of online application

- 1. Photograph (Passport size with white background)
- 2. Document to prove age
- 3. Caste certificate for ST issued by revenue authorities not below the rank of a Tahsildar (valid as per Govt. of India norms).



- 4. "No Objection Certificate" in case of employed candidates
- 5. Certificates to prove academic qualifications, marks, achievements and experience.
- 6. Registration Certificate: Medical (MBBS/MD/MS/DNB)

HALL TICKET/CALL LETTER

Eligible candidates for the entrance examination can download the Hall Ticket/ Call letter ten days prior to the scheduled date for entrance examination from SCTIMST website www.sctimst.ac.in. Intimation regarding hall ticket will be sent to the registered e-mail ID.

VENUE FOR ENTRANCE EXAMINATION: Thiruvananthapuram



ANTI RAGGING AFFIDAVIT



Ragging in all its forms is prohibited in the Institute

All candidates at the time of admission to the Institute will be required to furnish an undertaking in the form of an affidavit that the candidate will not indulge in any form of ragging and, if found ragging, the Institute may take appropriate action against the erring students.

Regarding ragging the directive of Hon'ble Supreme Court will be followed strictly. It is as under: "As per direction of the Hon'ble Supreme Court of India, the Government has banned ragging completely in any form inside and outside of the campus and the Institute authorities are determined not to allow any form of the ragging. Whoever directly or indirectly commits, participates in abets or instigates ragging within or outside any educational Institution, shall be suspended, expelled or rusticated from the Institution and shall also be liable to fine which may extend to Rs. 10,000/-. The punishment may also include cancellation of admission suspension from attending the classes, withholding/withdrawing fellowship/scholarship and other financial benefits, withholding or cancelling the result. The decision shall be taken by the Head of the Institution."

Prohibition of and Punishment for Ragging:

- 1. Ragging in any form is strictly prohibited, within the premises of the Institution and any part of SCTIMST and also outside SCTIMST.
- 2. Ragging for the purpose of this rules, ordinarily means any act, conduct or practice by an individual or Any collective act by which dominant power or status of a senior students is brought to bear on students freshly enrolled or students who are, in any way, considered junior or inferior by other students which
- i) Involve physical assault or threat or use of physical force
- ii) Violate the status, dignity and honor of women students
- iii) Violate the status; dignity and honor of students/residents belonging to the Scheduled Castes, Scheduled Tribes and other Backward Castes.



- iv) Exposes student/resident to ridicule and contempt and affect their self-esteem;
- v) Entail verbal abuse and aggression, indecent gesture and obscene behavior.
- 3) The Dean, Associate Dean, Registrar, Hostel Warden and HoDs of SCTIMST may suo-moto enquire into any incident of ragging and make a report to the Director of the identity of those who have engaged and the nature of the incident. The Director of SCTIMST shall take necessary action based on the report.

Any person aggrieved in this matter may fearlessly approach the anti-ragging committee/Associate Dean (faculty and student affairs)/student grievance and redressal committee of SCTIMST for a fair and concerned hearing and redressal.

DEFINITION OF CATEGORY

Scheduled Tribe (ST) candidates

The fellowships reserved for the candidate belonging to ST as per rules, provided candidates fulfil the minimum admission requirements prescribed by the Institute for the purpose. The candidates belonging to ST are required to furnish certificate from a revenue officer not below the rank of Tahsildar, Sub Divisional Officer of the area where the candidate and /or his family normally resides. The documents (in original), must be produced at the time of verification at the specified Reporting Centre, failing which the candidature will be cancelled.

For more details regarding PhD program, contact:

THE DEPUTY REGISTRAR

Division of Academic Affairs SCTIMST, Trivandrum, Kerala- 695011, India. Telephone: 91-471- 2524269/289/649/140

Fax: 91-471-2446433

E-mail: dreg@sctimst.ac.in Website: www.sctimst.ac.in

IMPORTANT CONTACT ADDRESSES

			THE TRIVINGE WILL
Designation	Name	Telephone No.	email-ID
Director –I/C	Dr. Ajit Kumar V.K.	91-471 - 2524400	director@sctimst.ac.in
Head BMT Wing-I/C	Dr. Harikrishna Varma P.R.	91-471 - 2520201	headbmtw@sctimst.ac.in
Dean (Academic Affairs) –I/C	Dr. Kesavadas C.	91-471 - 2524500	dean@sctimst.ac.in
Head AMCHSS	Dr. Sankara Sarma P.	91-471 - 2524232	sarma@sctimst.ac.in
Associate Dean (PhD Program)	Dr. Mohanan P.V.	91-471 - 2520266	mohanpv@sctimst.ac.in
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(Research & Publication Cell)			
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(Faculty & student affairs)			
Associate Dean	Dr. Srinivasan K.	91-471 - 2524243	ksrini@sctimst.ac.in
(Health Science Studies)			
Associate Dean (Curriculum & Examinations)	Dr. Manikandan S.	91-471 – 2524463/575	kanmanis@sctimst.ac.in
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Deputy Registrar	Ms. Radha M.	91-471 - 2524140	dreg@sctimst.ac.in
Asst. Administrative Officer (Academic)	Ms. Chithra T.S.	91-471 - 2524269	regoffice@sctimst.ac.in

HEADS OF DEPARTMENTS/DIVISIONS

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BIOMEDICAL TECHNOLOGY (BMT) WING



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Transmission Electron Microscope	Dr. Manoj Komath	0471-2520220	manoj@sctimst.ac.in

STUDENT RESERVATION & EQUAL OPPORTUNITY CELL

1.	Associate Dean (Faculty & Student Affairs)	Liaison Officer (Ex-officio)
2.	Nodal officer for scholarships to students in the Institute	Member (Ex-officio)
3.	Dr. Roy Joseph	Scientist – G., BMT Wing - Member
4.	Dr. Biju Soman	Professor, AMCHSS – Member
5.	Dr. Unnikrishnan K.P.	Professor, Dept. of Anaesthesiology – Member
6.	Er. Ranjith G.	Engineer – E – Member
7.	Mr. Anand Kumar K.U.	Parent representative
8.	Registrar	Member
9.	Ms. Deepthy Chandran A.	Student Member
10	Dy Registrar	Convener

Anti-Ragging	Committee

1	Director	Chairman
2	HoD, Cardiology	Member
3	HoD, CVTS	Member
4	HoD, Neurology	Member
5	HoD, Neurosurgery	Member
6	HoD, Anaesthesiology	Member
7	HoD, IS&IR	Member
8	Lecturer in Nursing	Member
9	One Parent representative	Member
10	One junior student representative	Member
11	One senior student representative	Member
12	Mrs. Priya P., Administrative Officer	Member
13	AAO (Academic)	Convener

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Student Member	+91-471-2520596	deepthy@sctimst.ac.in
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