

# Call for Applications MS in Bioengineering '23 @ Christian Medical College, Vellore



**Late date: 3rd April 2023**

The MS Bioengineering at CMC-Vellore is a unique postgraduate engineering program in India. It imparts training in engineering analysis, design, prototyping, and evaluation for solving problems in healthcare within a multi-faceted top-ranked medical institution in India. The aim of the course is to bring some of the best global practices in biomedical engineering R&D to address healthcare problems in India.

### **Bioengineering @ CMC Vellore**

Bioengineering is an inter-disciplinary field engaged in basic science and applied research to develop and translate engineering solutions to problems in medicine and biology. Bioengineering @ CMC Vellore has engineering at its core, and includes the disciplines of physics, instrumentation, signal processing, robotics, and computational methods applied to physiology and medicine.

### **Research @ Bioengineering**

The primary research focus of Bioengineering @ CMC Vellore is on Physiological Measurements, Quantitative Movement analysis, and Rehabilitation Engineering.

The Bioengineering department works closely with several other departments in CMC Vellore. A major part of our past and current activities has been in physiological measurements, prostheses and assistive devices, electrodiagnostics, FES, and neurorehabilitation technology.

Devices developed in Bioengineering are in use in various clinical departments and research labs in CMC Vellore and other institutions. An important goal of the department's R&D is to develop and transfer healthcare technology.

MS Bioengineering program is a 2 year program with a strong emphasis on research. Students undergo a year of course work, followed by a year of research project. Students interact closely with clinical and basic science departments in CMC Vellore, to formulate a research problem. Research projects at Bioengineering are jointly supervised by clinical and basic medical science faculty.

### **Future Prospects**

This degree will equip students to apply quantitative and engineering methods to solve healthcare problems. Career prospects includes academic research and teaching careers as well as R&D in the medical devices industry.

### **Eligibility**

Candidates should have an undergraduate degree (BTech or BE) in engineering. Candidate that have qualified GATE or equivalent national level exams will be given additional weightage in the evaluation process.

Visit us @ <http://bioe-cmcvellore.in>

Email: [bioengg@cmcvellore.ac.in](mailto:bioengg@cmcvellore.ac.in)

Phone: 0416 2285098

Download application from

<http://admissions.cmcvellore.ac.in/>

**Applications must be received by 3rd April 2023**

**Eligible candidates will be called for a written test & interview in August 2023**

**Selected candidates are eligible to receive a stipend as post-graduates at CMC Vellore.**

The MS Bioengineering degree @ CMC Vellore is awarded by the Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum (an Institute of National Importance, Govt of India).

Dated: 01/03/2023

### MS BIOENGINEERING - ADMISSION TIMETABLE 2023\*

01/03/2023	Application can be downloaded from the website
03/04/2023	Last date for submission of application form with payment, till 5 pm Email attachments accepted **
06/04/2023	Last date for receipt of relevant supporting documents Email attachments accepted **
17/04/2023	Last date for receipt of completed sponsorship forms
05/05/2023	Call letter will send by email only to eligible candidates
22/08/2023	Registration, Medical Checkup and Step 1- written test at Vellore
23/08/2023	Interview
25/08/2023	Announcement of final selection list
26/08/2023	Acceptance before 10.00 am
Will be informed	Registration for admission
	Course begins

\* Dates are subject to change

\*\* Scanned copies of documents may be sent as email attachments to [registrar@cmcvellore.ac.in](mailto:registrar@cmcvellore.ac.in) and subsequently, after the Lock down period is over, the hard copies may be sent by speed post /courier.

### **Seat distribution:**

The number of seats for the course per year is 5 (variable).

The selection of candidates for MS Bioengineering course will be according to the directives of the CMC Vellore Council. Fifty percent of seats are reserved for Minority Network candidates, provided they fulfill other criteria for eligibility for admission. *However, more than 50% of the available seats may be allotted to Minority Network candidates based on their final ranking.* The wait list is based on ranking in the selection tests. The first Minority Network candidate on the waiting list will ordinarily fill vacancies arising by Minority Network candidates not accepting a seat to make up 50% reservation for Minority Network candidates. In the event that Minority Network candidates fill more than 50% of the seats and one of the Minority Network candidate does not accept the seat, it will be offered to the next candidate on the wait list by rank irrespective of whether he or she belongs to Minority Network or open category.

## **RECOMMENDATION TO MINORITY NETWORK CATEGORY**

The aim of the Christian Medical College, Vellore is to train individuals for service in needy areas especially in Christian mission hospitals. To this end, Christian students are encouraged to apply, to be considered under the Minority Network category.

Any Christian Church or Christian Organization which is a member of the Christian Medical College Vellore Association and any other Church or Christian Body which operates its own medical work in India or neighbouring countries, which is a member of the Council, and which fulfills the criteria as laid down by the Council is eligible to recommend candidates to Minority Network category for selection to the various educational courses run by CMC, Vellore, provided the organization does not run the said course. The Christian Medical College, Vellore, is also a recognized Minority Network organisation.

1. Members of the Association and Council who are eligible for the privilege of recommendation to Minority Network category shall recommend ALL eligible candidates. It is essential that efforts be made by all Minority Network organisations to recommend students belonging to the weaker and under privileged sections of the society. Normally certification should be offered to candidates belonging to the Christian faith if they and their families have had a meaningful relationship with the Church or the related body for a period of at least 10 years. In the case of transfer from one parish/ diocese / denomination to another, the total period of relationship with the Churches (regardless of area or denomination) should be taken into consideration.
2. No candidate shall pay any amount exceeding Rs.750 to the Minority Network organisation towards registration for recommendation to Minority Network category. Collection of any amount in excess of Rs.750 as donation / security deposit / retainer or in any other form by the Minority Network organisation is a violation of the Christian Medical College Vellore Association and Council resolutions and guidelines.
3. Indian Minority Network organisations may recommend only Indian nationals. (Any person who holds a passport other than an Indian passport is ineligible to be recommended by an Indian Minority Network organisation).
4. **Recommendation to Minority Network category entails an agreement between the candidate and the Minority Network organisation whereby the candidate agrees to serve in one of the institutions of the Minority Network organisation for a minimum period of two years. This obligation should be given as service only and shall be ensured by the Christian Medical College, Vellore.**
5. No candidate recommended to the Minority Network category shall be considered for admission to MS Bioengineering course unless they achieve a set minimum standard in the selection test, which indicates that they can successfully complete the course. The candidates should also fulfill the eligibility requirements of the course.
6. All candidates who are selected for any educational course in the College shall execute with their Minority Network organisation and the College, legally valid agreements on appropriate stamp paper within 2 weeks of their selection. The College will get the students to execute the agreement written on behalf of the Minority Network organisations. Failure to execute the agreement will result in the candidate forfeiting the seat. The sample agreement can be obtained from the Registrar's Office at request.
7. Service obligation should be discharged only in terms of service and not through financial compensation. Candidates and their parent / legal guardian are required to sign a service obligation agreement.
8. Admission is restricted under the Minority Network Category to only one candidate from the same family (siblings) in any particular year to any single course offered by the Christian Medical College, Vellore.
9. ***Candidates who have applied for and are not eligible for recommendation to the Minority Network category will be considered under the open category.***

10. In the event a student fails to fulfill the service obligation by appropriate service as stated in the agreement, he / she will not be eligible for
  - a. Admission to any further educational courses at the Christian Medical College, Vellore
  - b. Any appointment in the Christian Medical College, Vellore and associated teaching hospitals.
11. Students who do not fulfill their service obligation will not be issued any certificates other than the certificates statutorily mandated by the University / Boards and Professional Registration Councils.
12. The list of Minority Network organisations eligible to recommend candidates to Minority Network category to the various courses is given in Annexure I of this Bulletin for MS Bioengineering Admissions 2023. **THE OFFICE OF THE REGISTRAR WILL NOT CORRESPOND IN THIS REGARD WITH THE CANDIDATE.**

**COMPLETED SPONSORSHIP FORMS ARE EXPECTED TO REACH THE REGISTRAR, CHRISTIAN MEDICAL COLLEGE, VELLORE – 632 002, NOT LATER THAN THE DATE MENTIONED IN ADMISSION TIME TABLE.**

## Annexure – I

### List of Minority Network Christian Churches/Organisations that may recommend candidates to Minority Network category for admission

Code	Minority Network Organisations	Code	Minority Network Organisations
1.	Andhra Evangelical Lutheran Church	32.	India Evangelical Lutheran Church
2.	Arcot Lutheran Church #	33.	Inter Ashram Fellowship
3.	Assemblies of God in North India #	34.	Jeypore Evangelical Lutheran Church
4.	Baptist Church of Mizoram	35.	Khasi Jaintia Presbyterian Assembly
5.	Chaldean Syrian Church of the East	36.	Kolhapur Church Council #
6.	Christian Assemblies in India	37.	Malankara Jacobite Syrian Orthodox Church
7.	Christian Service Society of the Bengal, Orissa & Bihar #	38.	Malankara Orthodox Syrian Church Catholicate of the East
8.	Church of North India, Nagpur Diocese	39.	Marathi Mission
9.	Church of North India Synod – The Synodical Board of Health services	40.	Marthoma Syrian Church of Malabar
10.	C.S.I. Coimbatore Diocese	41.	Mennonite Medical Board of the Mennonite Church in India.
11.	C.S.I. Dornakal Diocese	42.	Methodist Church in India
12.	C.S.I. Kanyakumari Diocese	43.	Mizo Presbyterian Church Synod
13.	C.S.I. Karimnagar Diocese #	44.	North Bank Baptist Christian Association
14.	C.S.I. Karnataka Diocese Inter Diocesan Medical Board	45.	Poona Christian Medical Association
15.	C.S.I. Krishna - Godavari Diocese #	46.	The Salvation Army India South Eastern Territory
16.	C.S.I. Madras Diocese	47.	The Salvation Army India South Western Territory #
17.	C.S.I. Madhya Kerala Diocese	48.	The Salvation Army India Western Territory
18.	C.S.I. Madurai-Ramnad Diocese	49.	Samavesam of Telugu Baptist Churches #
19.	C.S.I. Medak Diocese #	50.	Southern Asia Division of Seventh Day Adventists
20.	C.S.I. North Kerala Diocese	51.	Tamil Evangelical Lutheran Church
21.	C.S.I. Rayalaseema Diocese	52.	U.P. Regional Board of Health Services
22.	C.S.I. South Kerala Diocese	53.	The Leprosy Mission
23.	C.S.I. Tiruchy-Tanjore Diocese	54.	Christoffel Blinden Mission #
24.	C.S.I. Tirunelveli Diocese	55.	C.S.I. Jaffna Diocese#
25.	C.S.I. Vellore Diocese	56.	International Mission Board, Southern Baptist Convention
26.	Council of Baptist Churches in North East India	58.	South East Asia Union Mission of SDA Singapore
27.	Council of Christian Hospitals	59.	United Mission to Nepal
28.	Eastern Regional Board of Health Services	60.	Christian Medical College, Vellore
29.	Emmanuel Hospital Association	63.	Value Program, CMC, Ludhiana
30.	Evangelical Lutheran Church in Madhya Pradesh		
31.	Gossner Evangelical Lutheran Church #		

# NOT ELIGIBLE TO RECOMMEND FOR ADMISSIONS 2023-2024

**Christian Medical College, Vellore – 632002**

**Application for M.S. Bioengineering Course - 2023**

1. Name of the Candidate :
2. Father's Name :
3. Mother's Name :
4. House No./Street Name :
5. Post office/Taluk Name :
6. City Name :
7. State Name :
8. Pin Code :
9. Phone No :
10. Mobile/Cell Phone No :
11. E Mail Address :
12. Date of Birth :
13. Sex :
14. Religion :
15. Community :
16. Nationality :
17. State of Domicile :
18. Marital Status :
19. Mother Tongue :
20. Course applied : M.S. Bioengineering
21. Category : All India Open / Minority Network (please circle one)



If applying under Minority Network Category, please give details of Employment history and state potential Minority Network organisation which will recommend you.

Employment History:

Minority Network organisation (choose the potential Christian Churches / Organisations from Annexure I which will recommend you):

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21A. Give details of your experience in the institution in the Minority Network (see point 4 in the Information sheet), as well as the position and responsibilities you will undertake in the institution that recommends you.

22. Institution for undergraduate Engineering Degree (BE/B.Tech):

a) Name of Institution :

b) Branch Name :

23. GATE:

a) Score :

b) Branch :

c) Year :

24. Will you have fulfilled ALL THE ELIGIBILITY REQUIREMENTS as detailed in the brochure, within the time of admission– Y / N (circle one)

IF No, give details separately

25. Other information.

- a. The purpose of this section is for us to get an idea about your general interest in science, mathematics and engineering. This section is not mandatory and is not part of the eligibility criteria. Nevertheless, we highly encourage you to fill in this section.
  - b. What science and engineering projects have you undertaken so far? Please feel free to add all projects in addition to the B. Tech project. These can include projects done for a course, for fun or for other purposes
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26. Application & Registration fee Rs.1,500/-

The Candidates applying from SAARC countries should send Rs.2,500/- or its equivalent and those from other foreign countries US dollars 100 or its equivalent. Payment is only through challan at any branch of ICICI Bank. Please use the attached ICICI challan to pay the fee.

Branch Name: \_\_\_\_\_

Challan No: \_\_\_\_\_

Date: \_\_\_\_\_

Please send the original ICICI paid challan along with completed application form.

**I declare that all information in this form is correct. I understand that falsification of data will result in automatic disqualification. I hereby declare that I have read the rules & regulations regarding ragging as given in the Prospectus 2023-2024 and agree to abide by the same.**







Candidate's Signature:

Date:

Place:

**THE COMPLETED FORM WITH ALL ENCLOSURES (Mark sheets, Degree certificates and GATE score card copy) MUST REACH THE REGISTRAR, CMC, VELLORE 632 002, BY 3<sup>rd</sup> April 2023.**



Bank Copy		Candidate Copy		This copy must reach the Registrar's Office, CMC, Vellore – 632 002 before the last date.																																																																
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