

BIOMEDICAL ENGINEER

A Biomedical Engineer is a specialist who innovates and designs technological solutions for the medical industry. They are responsible for designing and creating artificial organs, devices, software and other equipments used in healthcare. They work to improve the quality and effectiveness of patient care, and improve the quality of life as well as the functioning of the medical industry.

PERSONAL COMPETENCIES

- You like to work in a team
- You enjoy figuring how things work and pay attention to details
- You have a strong interest in Science and Mathematics
- You like to solve problems



SCHOLARSHIPS

- Merit-cum-Means based Scholarship - About 20,000 such engineering scholarships are awarded by the Ministry of Minority Affairs every year. The full course fees of awardees is directly paid to their institutions under this scheme. *
 - Indian Oil Educational Scholarship- The IOC Ltd offers 300 scholarships every year to eligible students. Students need to be enrolled in an undergraduate course. The scholarship particularly focuses on students with physical disabilities, women and students from North East and J&K.*
 - Ishan Uday” Special Scholarship Scheme - For promoting higher education and for encouraging children belonging to economically weaker section of the NE region, the UGC has launched “Ishan Uday” Special Scholarship Scheme for North Eastern Region students.
 - Visit www.scholarships.gov.in the National Scholarship Portal. Under this portal there are other central government schemes offered by different departments, UGC/AICTE Schemes and State Schemes.*
 - Visit www.buddy4study.com a gateway to scholarships starting from Class XI.*
 - Scholarships are also available in institutes based on merit.*
- *(Availability of these scholarships vary from time to time)

LOANS

- VidyaLakshmi, www.vidyalakshmi.co.in, is a portal for students seeking education loan. This portal has been developed under the guidance of the Department of Financial Services, (Ministry of Finance), Department of Higher Education (Ministry of Human Resource Development) and Indian Banks Association (IBA). Students can view, apply and track the education loan applications on the website.
- Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.
- All banks give education loans.



The approx. course fee ranges between **INR 25,000 - 2,00,000*** per annum.

*(The above mentioned figures are approximate numbers. This will vary from Institute to Institute)

ENTRY PATHWAY



1. Complete 10+2 in the Science stream (Physics, Chemistry, Biology)
 2. Complete Bachelor's degree (B.Tech./BE/B.Sc.) in Biomedical Engineering
- OR**
- Complete Bachelor's degree and follow it up with Master's (M.Tech.) in Biomedical Engineering

For admissions, you must qualify JEE Main, and follow it up with JEE Advanced is needed for admissions to IITs. Other entrance exams can be taken such as GATE/BITSAT etc.

Please check the duration of the course during enrolment



EXPECTED INCOME

The figures are indicative & subject to change

The approx. salary of a Biomedical Engineer ranges between **INR 16,000 - 80,000*** per month.

Source: https://www.payscale.com/research/IN/Job=Bio-medical_Engineer/Salary

WHERE WILL YOU WORK

Places of Work: Hospitals, Clinics, Research facilities, Medical manufacturing units.

Work Environment: You can expect to work for minimum 8 hours per day, but in many cases you have to work longer. You will usually work as a part of a team and expect to cooperate and communicate with specialists in other fields.

Opportunities for differently abled exist in this field

EXPECTED GROWTH PATH



Field Service Technician → Service Manager → Project Engineer → Project Engineering Manager / Product Development Manager

WHERE WILL YOU STUDY?

This course is offered by the Department of Engineering.
This list of institutes is indicative only

GOVERNMENT INSTITUTES

1. IIT Guwahati
2. IIT Madras
3. IIT Delhi
4. IIT Bombay
5. College of Engineering, Pune
6. NIT, Raipur
7. Indian Institute of Engineering, Science and Technology, Shibpur
8. IIT Hyderabad

PRIVATE INSTITUTES

(Please check if institute is affiliated and accredited with UGC and AICTE before applying)

1. Manipal Institute of Technology, Manipal
2. Integral University, Lucknow
3. Vellore Institute of Technology, Vellore
4. Sathyabama Institute of Science and Technology, Chennai
5. Karunya Institute of Technology and Sciences, Coimbatore
6. Amity University, Gurugram
7. SRM Institute of Science and Technology, Kallankuthar

Information on the institute rankings can be found at -
www.nirfindia.org/2022/Ranking.html

ONLINE COURSES

- NPTEL* Swayam -https://onlinecourses.nptel.ac.in/noc21_bt50/preview
&src=/sac&kw=sound+engineering

NPTEL - National Programme in Technology Enhanced Learning. It is by the Government of India and offers a variety of courses in an audio - video form.



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