

INFORMATION TECHNOLOGY ENGINEER

IT Engineers design, install, and maintain a company's computer systems. They are responsible for testing, configuring, and troubleshooting hardware, software, and networking systems. They may also be required to train staff and manage projects.

PERSONAL COMPETENCIES

- You are good at logical thinking and reasoning
- You enjoy solving problems
- You are innovative
- You are tech savvy and have good mathematical and analytical skills



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. 30,000 - INR 8,00,000*** 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 and Mathematics)
2. Complete Bachelor's degree (B.Tech/B.E./B.Sc) in Information Technology/Computer Science/Computer Science Engineering/Data Science and Engineering/Electronics and Communication Engineering

OR

Complete Bachelor's degree followed by a Master's degree in the same or related field

For admissions, you must qualify entrance examination conducted at national level (JEE Main, JEE Advanced etc.) or state level (WBJEE, AP EAMCET etc.) or institute level (VET, IP etc.)

Please check the duration of the course during enrolment



EXPECTED INCOME

The figures are indicative & subject to change

The approx. salary of an IT Engineer ranges between **INR 25,000 - 1,67,000*** per month.

Source: https://www.payscale.com/research/IN/Job=Software_Engineer/Salary?loggedIn

WHERE WILL YOU WORK

Places of Work: IT specialists are required in almost all sectors such as Technology, Finance, E-commerce, Medicine, Defence, and other areas.

Work Environment: You will work in an office set up. Usually, you will work fixed hours. But you may occasionally be required to work extended hours to meet steep deadlines or in emergency situations. You may work full-time, part-time or on hourly basis as a freelancer. Work from home may be available.

Opportunities for differently abled exist in this field

EXPECTED GROWTH PATH



Junior IT Engineer → Senior IT Engineer →
Software Developer → Team Leader →
Project Manager, Information Technology

WHERE WILL YOU STUDY?

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

GOVERNMENT INSTITUTES

1. Central Institute of Technology, Kokrajhar
2. Gauhati University
3. Indian Institute of Engineering Science and Technology, Kolkata
4. North Eastern Hill University, Shillong
5. Government Polytechnic, Mumbai (Diploma)
6. Aligarh Muslim University (Diploma)
7. NIMS University, Jaipur (Diploma)
8. Government Polytechnic For Girls, Ahmedabad (Diploma)

PRIVATE INSTITUTES

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

1. Manipal Institute of Technology
2. Regional Institute of Science and Technology, Guwahati
3. Girijananda Chowdhury Institute of Management and Technology, Guwahati
4. Vellore Institute of Technology
5. Birla Institute of Technology, Jharkhand

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

ONLINE COURSES

- Coursera - <https://in.coursera.org/courses?query=engineering>

Search keywords...



*junior programmer, database administrator,
junior network manager, data analyst*



EXAMPLE FROM THE FIELD



Kuntal Chakraborty is an IT engineer by profession and education. He has worked as a systems engineer and network engineer at Siemens and Atos. He has done his B.Tech. in Information Technology from West Bengal University of Technology. Chakraborty's current passion is Artificial Intelligence (AI) and Machine Learning (ML).*

Source - <https://www.techopedia.com/contributors/kuntal-chakraborty>

*The above information is for training purposes only and will not be used for any commercial gains.