

# COMPUTER SCIENTIST

Computer Scientists work on the theoretical side of computation, as opposed to the hardware side which is the focus of hardware engineers. Although computer scientists can also focus their work and research on specific areas (such as software engineering, computer graphics and so on), their foundation is the theoretical study of computing.

## PERSONAL COMPETENCIES

- You are good with computers
- You like to analyse problems/situations
- You like to do experiments
- You are a practical person



The approx. course fee ranges between **INR 45,000 - 10,00,000\***

*\*These figures are estimated numbers and will vary from Institute to Institute.*

## SCHOLARSHIPS

- Engineering specific scholarships - You can opt for engineering-specific scholarships such as IndusInd Foundation Scholarship, Baba Gurbachan Singh Scholarship Scheme, Samsung Star Scholar Programme 2022, Central Sector Scheme Of Scholarships, JSPN Scholarship 2022 and so on\*
  - National Scholarship Portal - Please visit [www.scholarships.gov.in](http://www.scholarships.gov.in) Under this portal there are Central Government schemes, UGC/AICTE Schemes and Assam Government Schemes offered by different departments\*
  - Please visit [www.buddy4study.com](http://www.buddy4study.com) for details on available scholarships. This is a gateway to scholarships starting from Class XI\*
  - Scholarships are also available in the Institutes based on merit\*
- \*(Availability of these scholarships can vary from time to time)

## LOANS

- VidyaLakshmi, [www.vidyalakshmi.co.in](http://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.



## ENTRY PATHWAY

1. Complete 10+2 in the Science stream (Physics, Chemistry and Mathematics)
2. Complete a Bachelor's degree (B.Tech/B.Sc./BCA/B.E.) in Computer Science/Information System  
OR  
Complete a Bachelor's degree followed by a Master's degree (M.Tech/M.Sc./MCA/M.E.) in the same field

*Please check the duration of the course during enrolment*



## EXPECTED INCOME

*\*The figures are indicative & subject to change*

The approx. salary of a Computer Scientist ranges between **INR 35,500 - 3,34,000\*** per month.

Source: [https://www.payscale.com/research/IN/Job=Computer\\_Scientist/Salary](https://www.payscale.com/research/IN/Job=Computer_Scientist/Salary)

## WHERE WILL YOU WORK

**Places of Work:** You can find work in industries such as the Health Care Technology, Scientific Research Firms, Educational institutions, Social Media Companies, Software and Computer Manufacturing Companies, in Government Sectors, Financial Service Providers and so on

**Work Environment:** The work timings are typically 5 to 6 days a week for 8 to 9 hours per day. Shift system is applicable.

**Entrepreneurship:** You can pursue freelancing in this domain.

*Opportunities for work exist for differently abled in this field.*

## EXPECTED GROWTH PATH

Junior Computer Scientist → Senior Computer Scientist

## WHERE WILL YOU STUDY?

The course is offered by the Department of Computer Science. This list of Institutes is indicative only

### GOVERNMENT INSTITUTES

1. IIT Guwahati
2. Tezpur University, Tezpur
3. Assam University, Silchar
4. NIT Silchar
5. Gauhati University, Guwahati
6. Assam Engineering College, Guwahati
7. Dibrugarh University, Dibrugarh
8. CIT Kokrajhar
9. IIIT Guwahati
10. Assam Science and Technology University, Guwahati

### PRIVATE INSTITUTES

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

1. Royal Global University, Guwahati
2. Girijananda Chowdhury Institute of Management and Technology, Guwahati
3. Assam Down Town University, Guwahati
4. Assam Don Bosco University, Guwahati
5. Acharya Prafulla Chandra College, Kolkata
6. Bangalore City College, Bangalore
7. Bapatla Engineering College, Andhra Pradesh
8. Bonnie Foi College, Bhopal

Information on Institute rankings is available at - <https://www.nirfindia.org/2022/Ranking.html>

Search keywords...



computer science, software scientist, operating software scientist

### DISTANCE LEARNING INSTITUTE

Indira Gandhi National Open University (IGNOU), New Delhi

### ONLINE COURSES

- NPTEL\* Swayam - <https://nptel.ac.in/courses/106106092>
- Udemy - <https://www.udemy.com/course/introduction-to-computer-science/>

\*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

## EXAMPLE FROM THE FIELD

**Geetha Manjunath** is an Entrepreneur and Computer Scientist. She is the founder and CEO of NIRAMAI Health Analytix, a Bengaluru based start-up that provides non-invasive, radiation free breast cancer screening through AI. She has a BE in Computer Science and Engineering and a PhD in Data Mining, Semantic Web from IISc. She was awarded the Computer Society of India Gold Medal, TR Shamanna State Award from Karnataka and was named as one of the top 50 NASSCOM IT Innovators in 2009 and was also the winner of 2010 MIT Tech Review Grand Challenges for Technologists in Healthcare category.\*

Source: <https://rising.analyticsindiamag.com/speaker/geetha-manjunath/>

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