

Information Technology



ARTIFICIAL INTELLIGENCE ENGINEER

Artificial intelligence engineers use AI and machine learning techniques to develop applications and systems. They help organisations to perform more efficiently and in the process increases their profit margins.

PERSONALITY TRAITS



- You enjoy Science
- You are a creative person
- You like using computers
- You are interested in studying about human behaviour



The approx. course fee range between **INR 43,400 - 10,00,000*** approx. for one year

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

SCHOLARSHIPS

• There are a few 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, NTPC Scholarship Scheme 2022, Foundation for Excellence Scholarship 2022, RD Sethna Loan Scholarship. For more you can visit the below-mentioned websites:

• Please visit www.scholarships.gov.in for all latest details. This will take you to the National Scholarship Portal. Under this portal there are central government schemes offered by different departments, UGC/AICTE Schemes and State Schemes

• Please visit www.buddy4study.com for details on available scholarships. This is a gateway to scholarships starting from Class XI.

• Scholarships are made available by institutes themselves 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.



EDUCATIONAL PATHWAY

1. Complete 10+2 in Science stream (Physics, Chemistry and Mathematics)

2. Complete Bachelor's in Artificial Intelligence/ Mathematics/Statistics/ Computer Science/Information Technology

OR

Complete Diploma in AI and Machine Learning

OR

Complete Bachelor's degree then do a Master's in Computer Science & Engineering/ Artificial Intelligence/Machine Learning/ Robotics /Avionics/Electronics/Electronics & Communication Engineering/Data Science/ Data Engineering/Information Science & Engineering/Electrical Signal Processing/ Computer Networking/Applied Linguistics/ Computational Linguistics and allied fields

OR

Complete Bachelor's degree in Mathematics/Statistics/Computer Science/Information Technology and then do an online certificate course related to Artificial Intelligence

For admissions, you must qualify entrance examination conducted at the 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 AI Engineer ranges between **INR 42,000- 133,333*** per month.

Source: <https://bit.ly/3WJlIm5>

WHERE WILL YOU WORK

Places of Work: Software and Tech companies, Government and Private research facilities and Engineering institutes among others

Work Environment: You will typically work in an office set-up. You will be required to work in teams along people such as Data Scientists, IT experts etc. You are most likely to work 8 hours a day but depending on the workload and deadlines you may be required to work longer hours

Opportunities for differently abled exist in this field

EXPECTED GROWTH PATH



Junior Engineer → Senior Engineer
→ Principal Engineer/Engineering
Manager → Vice President → Chief
Technology Officer

WHERE WILL YOU STUDY?

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

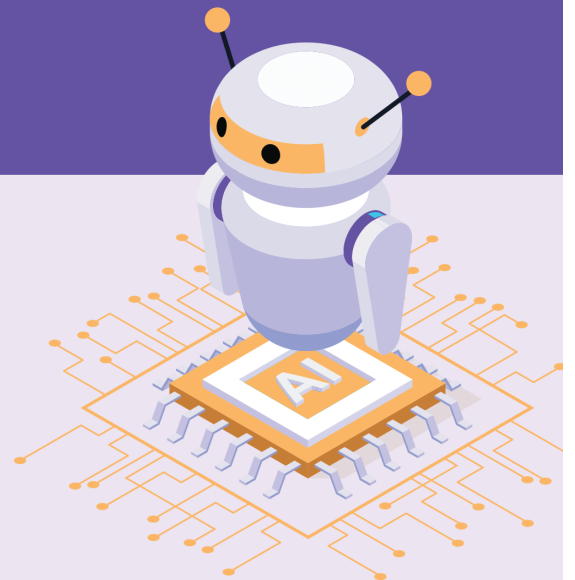
GOVERNMENT INSTITUTES

1. Indian Institute of Science, Bengaluru
2. University College of Engineering, Osmania University, Hyderabad
3. Indian Institute of Technology, Hyderabad
4. Indian Institute of Information Technology (IIIT), Bengaluru
5. Delhi Technological University, New Delhi
6. IIIT, New Delhi
7. University Institute of Engineering and Technology (UIET), Kanpur
8. Indian Institute of Technology, Jodhpur, Rajasthan

PRIVATE INSTITUTES

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

1. Vellore Institute of Technology, Vellore, Tamil Nadu
2. SRM Institute of Science and Technology, Chengalpattu, Tamil Nadu
3. Symbiosis Institute of Technology, Pune
4. Bangalore Institute of Technology, Bengaluru
5. Jamia Hamdard University, New Delhi
6. Christ University, Bengaluru
7. Haldia Institute of Technology, Haldia, West Bengal



Search keywords...



data science engineer, artificial intelligence engineer, artificial intelligence developer

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EXAMPLE FROM THE FIELD

Meena Narayanan is considered to be India's first woman Sound Engineer. She worked with her husband A. Narayanan, who was one of the most acclaimed directors in early Tamil cinema. Although she did not receive any formal training in the field, film historian S. Theodore Baskaran writes in his book, *The Message Bearers*, that she paid attention to sound engineering and gained experience in two years. She was trained in Carnatic music.*

Source: www.thehindu.com/news/cities/chennai/in-sound-engineer-unsung-yet/article29453789.ece

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

AUGMENTED REALITY ENGINEER

Augmented Reality is a technology which allows a person to see virtual components (such as text, images and so on) in the real world. This technology is typically used in the gaming industry. An Augmented Reality Engineer makes use of technology to create an augmented reality environment.

PERSONALITY TRAITS

- You like to build or assemble things
- You are creative
- You pay attention to details
- You are good with computers

SCHOLARSHIPS

- Kishore Vaigyanik Protsahan Yojana Scholarship - This scholarship is provided to students enrolled in the first year of their engineering undergraduate course. Eligibility includes an aptitude test. It is awarded by the Government of India for economically backward students who have a strong aptitude for scientific research.*

- 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.*

- Visit www.scholarships.gov.in the National Scholarship Portal. Under this portal there are 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.*

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*(Availability of these scholarships vary from time to time)

LOANS

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- 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 6,000-7,50,000***

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

EDUCATIONAL PATHWAYS

1. Complete 10 + 2 in the Science stream (Physics, Chemistry and Mathematics)
2. Complete Bachelor's degree (B.Tech.) in Computer Science and Engineering/ B.Sc. in Virtual and Augmented Reality

For admissions, you must qualify entrance examination conducted at the 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. average salary of an AR Engineer ranges from INR 60,000 - 65,000* per month.

Source : https://www.payscale.com/research/IN/Skill=Augmented_Reality/Salary

WHERE WILL YOU WORK

Places of Work: As an AR Engineer, you can work in game development companies, IT companies, real estate sector and the education sector among others.

Entrepreneurship: As an Augmented Reality Engineer, you can start your own startup business or company in this field.

Work Environment: It is typically an office job. You may work in shift systems or have flexible hours depending on the company you are working for.

Opportunities for differently abled exist in this field

EXPECTED GROWTH PATH

Metaverse Business Analyst → Senior Metaverse Business Analyst → Technical Lead

OR

Digital Designer → Extended Reality Content Development → Senior Solutions Architect

WHERE WILL YOU STUDY?

This course is offered by the Department of Computer Science and Engineering

This list of institutes is indicative only

GOVERNMENT INSTITUTES

1. Indian Institute of Technology, Madras
2. Indian Institute of Technology, Kanpur
3. Indian Institute of Technology, Guwahati
4. Periyar University, Tamil Nadu
5. Indian Institute of Technology, Jodhpur
6. Indian Institute of Technology, Roorkee
7. International Institute of Information Technology, Bhubaneswar

PRIVATE INSTITUTES

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

1. NorthCap University, Gurgaon, Haryana
2. Chandigarh University, Punjab
3. Presidency University, Bangalore
4. Chitkara University, Himachal Pradesh
5. Lingaya's Vidyapeeth, Faridabad
6. Birla Institute of Technology Mesra, Jaipur, Rajasthan

Search keywords... 

augmented reality developer, artificial reality developer, augmented reality designer



EXAMPLE FROM THE FIELD

Gayathri Shri is a senior AR developer with expertise in SparkAR, Lens studio and Unity3D. An alumni of the University of Colorado where she has completed her Bachelor's in Software Development, Gayathri is currently a Spark AR curriculum designer with Meta, Facebook's parent company. Augmented Reality fascinated her and she wanted to make a difference in a sector, which is usually considered a male preserve.*

Source:

www.youtube.com/watch?v=8QJ3vaeiJC4

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BIG DATA ANALYST

Big data analytics is the use of advanced analytic techniques for collecting, examining, and analysing large amounts of data. It is used to discover market trends, insights, and patterns. It helps companies make more informed decisions in the management of their organisation.

PERSONALITY TRAITS



- You like to solve problems
- You like to analyze things (problems/situations)
- You are interested in research
- You are good in Maths and Statistics



SCHOLARSHIPS

- Kishore Vaigyanik Protsahan Yojana Scholarship - This scholarship is provided to students enrolled in the first year of their engineering undergraduate course. Eligibility includes an aptitude test. It is awarded by the Government of India for economically backward students who have a strong aptitude for scientific research.*
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- All banks give education loans.



The approx. course fee ranges between approx. **INR 1,05,000 - 18,32,000***

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



EDUCATIONAL PATHWAY

1. Complete 10+2 in Science stream (Physics, Chemistry and Mathematics)
2. Complete Bachelor's degree (BSc/BCA/ B Tech) in IT/ Data Science/ Computational Engineering

OR

Complete Bachelor's degree and follow it up with Master's in the same discipline

OR

Pursue diploma or certification at post graduation level

Entrance

While several institutes offer big data analytics courses on the basis of 10+2 results, some institutes conduct common entrance tests for the admission

Please check the duration of the course during enrolment



EXPECTED INCOME

The figures are indicative & subject to change

The approximate salary of a Big Data Analyst ranges between **INR 22,000 - 83,000*** per month.

Source: https://www.payscale.com/research/IN/Job=Data_Analyst/Salary/37461315/Big-Data-Analytics

WHERE WILL YOU WORK

Places of Work: Investment banks, Hedge funds, and Private equity firms, Healthcare industry, Marketing, Retail, Banking, Software and tech companies, Government and Private research facilities.

Work Environment: You will typically work in an office set-up, you will be required to work in teams along people such as data scientists, IT experts etc. You are likely to work eight hours a day but depending on the workload and deadlines you may be required to work longer hours.

Opportunities for differently abled exist in this field

EXPECTED GROWTH PATH



Big Data Analyst → Big Data Engineer →
Data Scientist → Data Architect →
Database Manager

WHERE WILL YOU STUDY?

This course is offered by the Department of Computer and Information Science

This list of institutes is indicative only

GOVERNMENT INSTITUTES

1. Indian Institutes of Management (IIM), Lucknow
2. IIM Calcutta, Kolkata
3. Indian Institute of Technology (IIT), Madras, Chennai
4. Indian Institute of Science, Bengaluru
5. Jawaharlal Nehru University, New Delhi
6. Annamalai University, Annamalai Nagar, Tamil Nadu
7. Chandigarh College of Engineering and Technology, Chandigarh
8. Bharathiar University, Coimbatore, Tamil Nadu

PRIVATE INSTITUTES

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

1. SRM Institute of Science and Technology
2. Presidency University, Bengaluru
3. Indian School of Business Management and Administration, New Delhi
4. Institute of Good Manufacturing Practices India, New Delhi (PGDM)
5. Acharya Nagarjuna University, Nagarjun Nagar, Andhra Pradesh
6. Loyola Academy, Hyderabad
7. Sathyabama Institute of Science and Technology, Chennai

Search keywords...



*big data analytics job, big data manager,
big data hadoop architect*



EXAMPLE FROM THE FIELD



Amy O'Connor currently works as chief data and information officer at Precisely. She joined Hadoop distributor, Cloudera, in 2013, coming to the company from Nokia, where she served as senior director of big data. In her role at Cloudera, she advises customers as they introduce and adopt big data solutions. At Precisely, she leads the IT and Information Security team where she and her team are building a secure SaaS-based enterprise systems ecosystem, integrating the two companies formerly known as Syncsort and Pitney Bowes Software & Data.*

Source: <https://conferences.oreilly.com/strata/strata-ca-2019/public/schedule/speaker/167430.html>

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BLOCKCHAIN DEVELOPER

A blockchain is a type of database used to store and organize information. This technology allows businesses to conduct secure transactions without involving third parties. Blockchain Developers build, maintain, and design blockchain applications and systems.

PERSONALITY TRAITS

- You are good with computers
- You like to analyse problems/situations
- You pay attention to details while working
- You are comfortable with working in a team



The approx. course fee ranges between **INR 20,000 - 15,54,000***

**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 Under this portal there are Central Government schemes offered by different Departments, UGC/AICTE Schemes and State Schemes.*

• Please visit 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)*

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• Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.

• All banks give education loans.



EDUCATIONAL PATHWAY

1. Complete 10+2 in the Science stream (Physics, Chemistry and Mathematics)
2. Complete a Bachelor's degree (B.Tech/B.Sc./B.E.) in Computer Science and Engineering Blockchain Technology

OR

Complete a Bachelor's degree followed by a Master's degree (M.Tech/M.Sc./M.E.) in the same field

OR

Complete a Bachelor's degree followed by a Master's degree (MBA) in Process automation/Blockchain.

Please check the duration of the course during enrolment



EXPECTED INCOME

**The figures are indicative & subject to change*

The approx. salary of a Blockchain Developer ranges between **INR 20,000 - 4,17,000*** per month

Source: https://www.payscale.com/research/IN/Skill=Blockchain_Technology/Salary

WHERE WILL YOU WORK

Places of Work: You can find in several IT companies across the country or overseas

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 field as well as start your own company

Opportunities for work exist for differently abled in this field.

EXPECTED GROWTH PATH

Junior Blockchain Developer → Senior Blockchain Developer → Principal Blockchain Developer

WHERE WILL YOU STUDY?

The course is offered by the Department of Computer Science.

This list of Institutes is indicative only

GOVERNMENT INSTITUTES

1. CR Rao Advanced Institute of Mathematics, Statistics and Computer Science, Hyderabad
2. Ayya Nadar Janaki Ammal College, Sivikasi, Tamil Nadu
3. Atma Ram Sanatan Dharma College, New Delhi
4. Asutosh College, Kolkata
5. Bhaskaracharya College of Applied Sciences, New Delhi
6. College of Applied Science (IHRD), Kundara Kollam, Kerala
7. Government Engineering College, Bikaner, Rajasthan
8. East Calcutta Girls College, Kolkata
9. Indian Institute of Technology (IIT) Delhi

PRIVATE INSTITUTES

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

1. Vellore Institute of Technology, Vellore, Tamil Nadu
2. Indian Institute of Information Technology, Vadodara
3. Kerala University of Digital Sciences Innovation and Technology, Thiruvananthapuram
4. Lovely Professional University, Phagwara
5. The NorthCap University, Gurgaon
6. Samrat Ashok Technological Institute, Vidisha
7. Shanmugha Arts Science Technology Research Academy, Thanjavur, Tamil Nadu
8. SRM Institute of Science and Technology, Chengalpattu, Tamil Nadu
9. Birla Institute of Technology and Science, Pilani, Rajasthan
10. Manipal Institute of Technology, Manipal, Karnataka
11. Vellore Institute of Technology, Vellore, Tamil Nadu
12. Institute of Engineering and Technology, Patiala, Punjab

EXAMPLE FROM THE FIELD

Manju Mohan is the CEO and Co-Founder of Ionixx Technologies, a tech company. Mohan holds a Bachelor's degree in Computer Science and Economics from the University of Western Ontario (Canada) and a Master's degree in Instructional Design from San Francisco State University. She is skilled in User Experience Design and well versed in Blockchain technology. She currently resides in Irvine, California.*

Source - wef.org.in/manju-mohan/

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Search keywords... 

blockchain, blockchain developer, blockchain engineer

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CLOUD ENGINEER

A Cloud Engineer is an IT professional responsible for all the technical aspects related to cloud computing, that is defined as the delivery of computing services over the internet ('the cloud') to offer faster innovation, and more flexible resources.

PERSONALITY TRAITS

- You are good with computers
- You like to analyse problems/situations
- You pay attention to details while working
- You are comfortable with communicating with others



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 Under this portal there are Central Government schemes offered by different Departments, UGC/AICTE Schemes and State Schemes.*
 - Please visit 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

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- Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.
- All banks give education loans.



EDUCATIONAL 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 Cloud Engineer ranges between **INR 22,750 - 1,67,000*** per month

Source: https://www.payscale.com/research/IN/Job=Cloud_Solutions_Engineer/Salary

WHERE WILL YOU WORK

Places of Work: You can work at tech companies or large, established organizations that have a large IT or cloud infrastructure.

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 profession

Opportunities for work exist for differently abled in this field.

EXPECTED GROWTH PATH

Entry Level Technician → Mid Level Cloud Engineer → Senior Cloud Engineer

WHERE WILL YOU STUDY?

The course is offered by the Department of Computer Science.

This list of Institutes is indicative only

GOVERNMENT INSTITUTES

1. CR Rao Advanced Institute of Mathematics, Statistics and Computer Science, Hyderabad
2. Ayya Nadar Janaki Ammal College, Sivikasi, Tamil Nadu
3. Atma Ram Sanatan Dharma College, New Delhi
4. Asutosh College, Kolkata
5. Bhaskaracharya College of Applied Sciences, New Delhi
6. College of Applied Science (IHRD), Kundara Kollam, Kerala
7. Government Engineering College, Bikaner, Rajasthan
8. East Calcutta Girls College, Kolkata

PRIVATE INSTITUTES

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

1. Annai College of Arts and Science, Valathur, Tamil Nadu
2. AD Patel Institute of Technology, New Vallabh Nagar, Gujarat
3. All India Institute of Management Studies, Chennai
4. Acropolis Institute of Management Studies and Research, Indore
5. Acharya Prafulla Chandra College, Kolkata
6. Bangalore City College, Bangalore
7. Bapatla Engineering College, Bapatla, Andhra Pradesh
8. Bonnie Foi College, Bhopal
9. Birla Institute of Technology and Science, Pilani, Rajasthan
10. Manipal Institute of Technology, Manipal, Karnataka
11. Vellore Institute of Technology, Vellore, Tamil Nadu
12. Thapar University, Patiala, Punjab

EXAMPLE FROM THE FIELD

Satyavathi Divadari has spent more than two decades in IT and cybersecurity and cloud computing in India. She is the Head of Enterprise Security Architecture and CyberRes Cloud CTO at Micro Focus. She did her MTech from BITS Pilani and now lives in Bangalore.*

Source: <https://www.womensweb.in/2022/08/women-trailblazers-in-the-world-of-cloud-computing-in-india-sept22wk1sr/>

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Search keywords... 

*cloud engineer, cloud technician,
cloud analyst*

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COMPUTER HARDWARE ENGINEER

Computer Hardware Engineers help to accelerate new computer technology by creating advancements in computer hardware. In order to do this, they research, design, develop, and test computer systems and their components.

PERSONALITY TRAITS

- Analytical thinking
- Problem-solving skills
- Technical aptitude
- Creativity
- Teamwork



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

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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*

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• All banks give education loans.

EDUCATIONAL PATHWAY

1. Complete 10+2 in the Science stream (Physics, Chemistry and Mathematics)
2. Complete a Bachelor's degree (B.Tech/B.Sc./BCA) in Computer Science/Electrical or electronics engineering OR

Complete a Bachelor's degree followed by a Master's degree (M.Tech/M.Sc./MCA) in the same field

OR
Complete a PG Diploma in Computer Hardware and Networking

Please check the duration of the course during enrolment



EXPECTED INCOME

**The figures are indicative & subject to change*

The approx. salary of a Computer Hardware Engineer ranges between **INR 13,100 - 1,67,000*** per month

Source: https://www.payscale.com/research/IN/Job=Hardware_Engineer/Salary



WHERE WILL YOU WORK

Places of Work: You can work in the Manufacturing sector creating electronic components and products, in Computer systems, design services, IT and web-hosting companies 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 field

Opportunities for work exist for differently abled in this field.

EXPECTED GROWTH PATH

Hardware Engineer → Validation Engineer → Senior Hardware Design Engineer

WHERE WILL YOU STUDY?

The course is offered by the Department of Computer Science.

This list of Institutes is indicative only

GOVERNMENT INSTITUTES

1. CR Rao Advanced Institute of Mathematics, Statistics and Computer Science, Hyderabad
2. Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu
3. Atma Ram Sanatan Dharma College, New Delhi
4. Asutosh College, Kolkata
5. Bhaskaracharya College of Applied Sciences, New Delhi
6. College of Applied Science, Kundara Kollam, Kerala
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8. East Calcutta Girls College, Kolkata

PRIVATE INSTITUTES

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

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5. Acharya Prafulla Chandra College, Kolkata
6. Bangalore City College, Bengaluru
7. Bapatla Engineering College, Bapatla, Andhra Pradesh
8. Bonnie Foi College, Bhopal
9. Birla Institute of Technology and Science, Pilani, Rajasthan
10. Manipal Institute of Technology, Manipal, Karnataka
11. Vellore Institute of Technology, Vellore, Tamil Nadu
12. Thapar University, Patiala, Punjab

Information on Institute rankings is available at - <https://www.nirfindia.org/Rankings/2023/Ranking.html>

Search keywords... 

computer hardware engineer, computer hardware designer, validation engineer

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EXAMPLE FROM THE FIELD

Meenakshi Chatterjee is a Hardware Engineer at Apple. She is a systems integrator and PCB designer. Earlier, she used to work with Twitter. She holds a Bachelor's degree in Electrical and Electronics and a Master's in Physics from Birla Institute Of Technology and Science (BITS), Pilani and has finished her Masters in Electrical Engineering from University of California, Los Angeles (UCLA).*

Source: <https://feminisminindia.com/2017/05/16/top-women-engineers-india/>

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

COMPUTER NETWORK ARCHITECT

Computer Network Architects design, build and maintain a variety of data communication networks -- from wide area network to intranet. After deployment, they also may manage the networks and troubleshoot any issues as they rise.

PERSONALITY TRAITS

- You are good with computers
- You like to analyse problems/situations
- You pay attention to details while working
- You are comfortable with communicating with others



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 Under this portal there are Central Government schemes offered by different Departments, UGC/AICTE Schemes and State Schemes.*
 - Please visit 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, 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), Ministry of Education 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.



EDUCATIONAL 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
- OR
- Pursue a PG Diploma in Information System

Please check the duration of the course during enrolment



EXPECTED INCOME

**The figures are indicative & subject to change*

The approx. salary of a Computer Network Architect ranges between **INR 83,334 - 2,50,000*** per month

Source: https://www.payscale.com/research/IN/Job=Network_Architect/Salary

WHERE WILL YOU WORK

Places of Work: You can find work in industries such as Finance and insurance, Educational services, Telecommunications, Computer systems design and related services

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 profession

Opportunities for work exist for differently abled in this field.

EXPECTED GROWTH PATH



Junior Network Technician → Computer Network Architect → Senior Network Architect

WHERE WILL YOU STUDY?

The course is offered by the Department of Computer Science.

This list of Institutes is indicative only

GOVERNMENT INSTITUTES

1. CR Rao Advanced Institute of Mathematics, Statistics and Computer Science, Hyderabad
2. Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu
3. Atma Ram Sanatan Dharma College, New Delhi
4. Asutosh College, Kolkata
5. Bhaskaracharya College of Applied Sciences, New Delhi
6. College of Applied Science, Kundara Kollam, Kerala
7. Government Engineering College, Bikaner, Rajasthan
8. East Calcutta Girls College, Kolkata

PRIVATE INSTITUTES

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

1. Annai College of Arts and Science, Valathur, Tamil Nadu
2. AD Patel Institute of Technology, New Vallabh Nagar, Gujarat
3. All India Institute of Management Studies, Chennai
4. Acropolis Institute of Management Studies and Research, Indore
5. Acharya Prafulla Chandra College, Kolkata
6. Bangalore City College, Bengaluru
7. Bapatla Engineering College, Bapatla, Andhra Pradesh
8. Bonnie Foi College, Bhopal
9. Birla Institute of Technology and Science, Pilani, Rajasthan
10. Manipal Institute of Technology, Manipal, Karnataka
11. Vellore Institute of Technology, Vellore, Tamil Nadu
12. Thapar University, Patiala, Punjab

Information on Institute rankings is available at - <https://www.nirfindia.org/Rankings/2023/Ranking.html>

Search keywords...



computer network architect,
computer network analyst,
computer systems architect

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EXAMPLE FROM THE FIELD



Jamie Smith is the Chief Computer Analyst and Cybersecurity Officer for RSA Security, which helps manage digital risk with a range of capabilities and expertise. She has earned a Bachelor of Technology in Computer Science from New York University. Smith runs all cybersecurity operations for the company, and she is integrated with 21st-century skills such as AI intelligence, critical thinking, emotional intelligence, communication skills, and extensive computer knowledge.*

Source: <https://gurukul.com/news/the-top-25-women-leaders-in-cybersecurity-of-2022>

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

COMPUTER SCIENCE ENGINEER

A Computer Science Engineer deals with the design, implementation, and management of information systems of both, software & hardware processes. As a computer scientist, you specialize in the theory of computation and the design of computational systems. Computer Science engineering allies with various disciplines such as electrical and electronics engineering, information technology, software engineering, and more.

PERSONALITY TRAITS



- You enjoy science
- You like to do experiments
- You like to analyze things (problems/situations)
- You enjoy figuring out how things work



SCHOLARSHIPS

- **Kishore Vaigyanik Protsahan Yojana Scholarship** - This scholarship is provided to students enrolled in the first year of their engineering undergraduate course. Eligibility includes an aptitude test. It is awarded by the Government of India for economically backward students who have a strong aptitude for scientific research.*

- **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.*

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*(Availability of these scholarships vary from time to time)

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- 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 2,00,000 - 6,00,000*** for the full course.

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



EDUCATIONAL PATHWAY

1. Complete 10+2 in the Science stream (Physics, Chemistry and Mathematics)
2. Complete Bachelor's degree (B.Tech./B.E.) in Computer Science Engineering

OR

Complete Bachelor's and then pursue Master's degree (M.Tech/M.E.) in the same 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 a Computer Science Engineer ranges between **INR 23,000 - 81,917*** per month.

Source: [https://www.payscale.com/research/IN/Degree=Bachelor_of_Engineering_\(BEng_%2F_BE\)%2C_Computer_Science_\(CS\)/SalaryDegree=Bachelor_of_Engineering_\(BEng_%2F_BE\)%2C_Computer_Science_\(CS\)/Salary](https://www.payscale.com/research/IN/Degree=Bachelor_of_Engineering_(BEng_%2F_BE)%2C_Computer_Science_(CS)/SalaryDegree=Bachelor_of_Engineering_(BEng_%2F_BE)%2C_Computer_Science_(CS)/Salary)

WHERE WILL YOU WORK

Places of Work: As a Computer Engineer, you will work in a variety of environments: Universities; Research; Varied industries; Government and private business organizations, IT and IT product companies. You may be finding solutions to problems, formulating and testing devices, or working in teams to develop new products.

Work Environment: You will typically have a desk-job in an office setting, although remote work may be an option. You will constantly use technology, including mobile phones, laptops and tablets. If you specialize in hardware, you will handle circuit boards, keyboards and monitors. Computer engineers can work both physically or remotely with other engineers, technology experts and clients.

Opportunities for differently abled exist in this field

EXPECTED GROWTH PATH

Computer Science Engineer → Systems Engineer → Consultant → Project Manager → Infrastructure Project Manager
OR
Computer Science Engineer → Senior Software Engineer → Project Manager → Information Technology Project Manager → Information Technology Infrastructure Manager

Search keywords... 

assistant professor of computer science, core computer science, computer engineers

WHERE WILL YOU STUDY?

The course is offered by the Department of Computer Science and Engineering.

This list of institutes is indicative only.

GOVERNMENT INSTITUTES

1. Indian Institute of Technology (IIT) Bombay, Mumbai
2. COEP Technological University, Pune
3. Maharaja Sayajirao University of Baroda, Vadodara
4. Jamia Millia Islamia, New Delhi
5. IIT Madras, Chennai
6. Delhi Technological University, New Delhi
7. LD College of Engineering, Ahmedabad
8. Veermata Jijabai Technological Institute, Mumbai

PRIVATE INSTITUTES

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

1. Manipal Institute of Technology, Manipal, Karnataka
2. Vellore Institute of Technology, Vellore, Tamil Nadu
3. SRM University, Chennai
4. Dayananda Sagar College of Engineering, Bangalore
5. R. V. College of Engineering College, Bengaluru
6. PSG Tech Coimbatore
7. Ramaiah Institute of Technology, Bengaluru
8. BMS College of Engineering, Bengaluru

EXAMPLE FROM THE FIELD

Kavita Bala is the Dean of Cornell Ann S. Bowers College of Computing and Information Science (Cornell Bowers CIS). She received her S.M. and Ph.D. from Massachusetts Institute of Technology (MIT), and her B.Tech. from Indian Institute of Technology (IIT, Bombay). Bala specializes in computer vision and computer graphics, leading research projects in recognition and visual search; material modeling and acquisition; realistic, physically-based rendering; and material perception. Bala's research has been adopted by industry in Autodesk's core rendering engine, and she co-founded GrokStyle, a visual recognition AI company, which began as a vision search and shopping tool integrated with IKEA's Augmented Reality application, and was subsequently acquired by Facebook in 2019.*

Source: <https://www.engineering.cornell.edu/faculty-directory/kavita-bala>

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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.

PERSONALITY TRAITS

- Analytical skills
- Programming proficiency (Python, Java, C++, etc.)
- Problem-solving ability
- Mathematical aptitude
- Critical thinking



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*
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- Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.
- All banks give education loans.



EDUCATIONAL 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



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. CR Rao Advanced Institute of Mathematics, Statistics and Computer Science, Hyderabad
2. Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu
3. Atma Ram Sanatan Dharma College, New Delhi
4. Asutosh College, Kolkata
5. Bhaskaracharya College of Applied Sciences, New Delhi
6. College of Applied Science, Kundara Kollam, Kerala
7. Government Engineering College, Bikaner, Rajasthan
8. East Calcutta Girls College, Kolkata
9. University of Delhi, New Delhi

PRIVATE INSTITUTES

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

1. Annai College of Arts and Science, Valathur, Tamil Nadu
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6. Bangalore City College, Bengaluru
7. Bapatla Engineering College, Bapatla, Andhra Pradesh
8. Bonnie Foi College, Bhopal
9. Birla Institute of Technology and Science, Pilani, Rajasthan
10. Manipal Institute of Technology, Manipal, Karnataka
11. Vellore Institute of Technology, Vellore, Tamil Nadu
12. Thapar University, Patiala, Punjab

Information on Institute rankings is available at - <https://www.nirfindia.org/Rankings/2023/Ranking.html>

Search keywords...



computer science, software scientist, operating software scientist

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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/>

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CYBER SECURITY SPECIALIST

Often there are malicious cyber attacks aimed at accessing, changing, or destroying sensitive information; extorting money from users; or interrupting normal business processes. Cyber security is the protection of computer systems, networks and programmes from such attacks. Cybersecurity Specialists protect the system from such malicious attacks by creating programmes that protect the systems from hackers.

PERSONALITY TRAITS

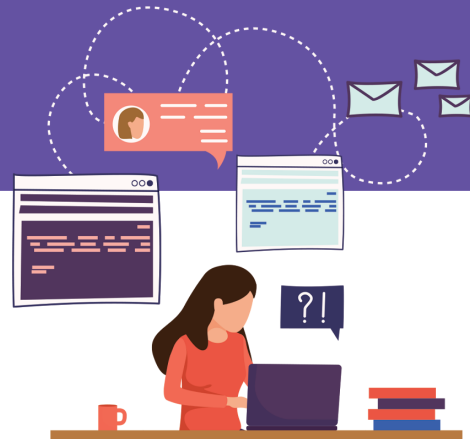
- You enjoy trying to help people solve their problems
- You like to analyze things (problems/situations)
- You are interested in working on the computer

SCHOLARSHIPS

- **Kishore Vaigyanik Protsahan Yojana Scholarship** - This scholarship is provided to students enrolled in the first year of their engineering undergraduate course. Eligibility includes an aptitude test. It is awarded by the Government of India for economically backward students who have a strong aptitude for scientific research.*
 - **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.*
 - **National Scholarship Portal** - Visit www.scholarships.gov.in. Under this portal there are central government schemes offered by different departments, UGC/AICTE Schemes and State Schemes.*
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- *(Availability of these scholarships vary from time to time)

LOANS

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- 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 90,000 - INR 12,00,000***

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

EDUCATIONAL PATHWAY

1. Complete class 10+2 in Science stream (Physics, Chemistry and Mathematics)
2. Complete a Bachelor's degree (BE/B.Tech./B.Sc.) in Computer Science and Engineering **OR**

After completing a Bachelor's degree you may complete a Diploma/Certification course in Cyber Security

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 a Cyber Security Specialist ranges between **INR 24,000 - 84,000*** per month

Source: https://www.payscale.com/research/IN/Job=Cyber_Security_Analyst/Salary



WHERE WILL YOU WORK

Places of Work: Different industries such as Banks, Government, Retail, Healthcare and BFSI sectors actively recruit Cyber Security professionals

Work Environment: Most Cyber Security Professionals spend roughly 40 hours a week in the office for full-time employment. However, during technology releases or program updates there are often longer hours required. Sometimes systems need updates or maintenance overnight and over the weekends. Cybersecurity professionals may also travel by providing consultation at a variety of client locations.

Opportunities for differently abled exist in this field

EXPECTED GROWTH PATH



Cyber Security Specialist → Cyber Security Analyst → Cyber Security Manager

OR

Cyber Crime Analyst → Cyber Security Consultant → Cyber Security Manager

WHERE WILL YOU STUDY?

This course is offered by the Department of Computer Science

This list of institutes is indicative only

GOVERNMENT INSTITUTES

1. IIT Madras
2. IIT Kanpur
3. IIT Guwahati
4. IISST Thiruvananthapuram
5. College of Engineering, Chennai
6. Jawaharlal Nehru Technological University, Hyderabad
7. Rajasthan Technical University, Kota
8. Punjab Engineering College, Chandigarh

PRIVATE INSTITUTES

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

1. MIT Manipal
2. Dayananda Sagar College of Engineering, Bangalore
3. Sathyabama University - Sathyabama Institute of Science and Technology
4. Kumaraguru College of Technology, Coimbatore
5. Dr Ambedkar Institute of Technology, Bangalore
6. Nitte Meenakshi Institute of Technology, Bangalore
7. Bannari Amman Institute of Technology, Tamil Nadu, Erode
8. Madras Institute of Technology, Chennai

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



EXAMPLE FROM THE FIELD

Lakshmi Hanspal is the global chief security officer at Amazon Devices & Services. Passionate about securing digital transformation and supporting socially conscious commerce, Hanspal also advises several Silicon Valley startups and serves on the advisory boards of eight cloud companies. She has done her BE degree from Birla Institute of Technology and Science, Pilani and MS in Computer Science from Boston University Master of Science (M.S.)*

Source: <https://www.crunchbase.com/person/lakshmi-hanspal>

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Search keywords...



cybersecurity specialist, network security specialist, web security specialist

DATA SCIENTIST

Data Scientists primarily collect, analyze and interpret data to help an organisation make decisions. They use advanced analytics techniques, such as computer programming, mathematical modeling and so on in the process.

PERSONALITY TRAITS

- You are good with computers
- You like working with numbers
- You like to analyse problems/situations
- 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*

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• All banks give education loans.



EDUCATIONAL 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.

OR

Complete a Bachelor's degree (B.Sc.) in Mathematics/Statistics followed by a Master's degree (M.Sc.) 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 Data Scientist ranges between **INR 29,000 - 1,67,000*** per month.

Source: https://www.payscale.com/research/IN/Job=Data_Scientist/Salary

WHERE WILL YOU WORK

Places of Work: You can work in tech startups, Government agencies, large companies and research institutions.

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 as well as work in a startup created by you.

Opportunities for work exist for differently abled in this field.

EXPECTED GROWTH PATH

Junior Data Scientist → Data Scientist → Senior Data Scientist

WHERE WILL YOU STUDY?

The course is offered by the Department of Computer Science.

This list of Institutes is indicative only

GOVERNMENT INSTITUTES

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3. Atma Ram Sanatan Dharma College, New Delhi
4. Asutosh College, Kolkata
5. Bhaskaracharya College of Applied Sciences, New Delhi
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Search keywords... 

data scientist, data, data analyst

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EXAMPLE FROM THE FIELD

Amarjeet Kaur is a Research Scientist with more than eleven years of experience. She currently works as senior Data Science Manager at Reliance JIO. She has a PhD in Computer Science and Technology with a specialisation in Artificial Intelligence. She wishes to push the boundaries of limiting factors so that more women are motivated to start their careers in the field of STEM.*

Source: <https://indiaai.gov.in/Article/amarjeet-kaur-sr-data-science-manager-reliance-jio>

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DATABASE ADMINISTRATOR

Database Administrators are primarily responsible for specific databases in the subsystem. While they are not responsible for the actual content of databases, they enforce procedures for accurate, complete, and timely update of the databases.

PERSONALITY TRAITS

- You are good with computers
- You like to analyse problems/situations
- You like to lead
- You are comfortable with communicating with others



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

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SCHOLARSHIPS

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EDUCATIONAL PATHWAY

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OR

Complete a Bachelor's degree followed by a Master's degree (M.Tech/M.Sc./MCA/M.E.) in the same field

OR

Pursue a PG Diploma in Information System

Please check the duration of the course during enrolment



EXPECTED INCOME

**The figures are indicative & subject to change*

The approx. salary of a Database Administrator ranges between **INR 20,417 - 84,000*** per month

Source: [https://www.payscale.com/research/IN/Job=Database_Administrator_\(DBA\)/Salary](https://www.payscale.com/research/IN/Job=Database_Administrator_(DBA)/Salary)



WHERE WILL YOU WORK

Places of Work: You can find work in MNCs, IT companies, non-IT companies, Insurance, Banking, Finance, Start-Ups.

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 profession as well as in your own company.

Opportunities for work exist for differently abled in this field.

EXPECTED GROWTH PATH

Junior Data Scientist → Data Scientist → Senior Data 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. CR Rao Advanced Institute of Mathematics, Statistics and Computer Science, Hyderabad
2. Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu
3. Atma Ram Sanatan Dharma College, New Delhi
4. Asutosh College, Kolkata
5. Bhaskaracharya College of Applied Sciences, New Delhi
6. College of Applied Science, Kundara Kollam, Kerala
7. Government Engineering College, Bikaner, Rajasthan
8. East Calcutta Girls College, Kolkata

PRIVATE INSTITUTES

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

1. Annai College of Arts and Science, Valathure, Tamil Nadu
2. AD Patel Institute of Technology, New Vallabh Nagar, Gujarat
3. All India Institute of Management Studies, Chennai
4. Acropolis Institute of Management Studies and Research, Indore
5. Acharya Prafulla Chandra College, Kolkata
6. Bangalore City College, Bengaluru
7. Bapatla Engineering College, Bapatla, Andhra Pradesh
8. Bonnie Foi College, Bhopal
9. Birla Institute of Technology and Science, Pilani, Rajasthan
10. Manipal Institute of Technology
11. Vellore Institute of Technology, Vellore, Tamil Nadu
12. Thapar University, Patiala, Punjab

Information on Institute rankings is available at - <https://www.nirfindia.org/Rankings/2023/Ranking.html>

Search keywords... 

database administrator, database architect, database manager

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EXAMPLE FROM THE FIELD

Amarjeet Kaur is a Research Scientist with more than eleven years of experience. She currently works as senior Data Science Manager at Reliance JIO. She has a PhD in Computer Science and Technology with a specialisation in Artificial Intelligence. She wishes to push the boundaries of limiting factors so that more women are motivated to start their careers in the field of STEM.*

Source: <https://indiaai.gov.in/Article/amarjeet-kaur-sr-data-science-manager-reliance-jio>

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

FULL STACK DEVELOPER

A Full Stack Developer is a person who is equipped to develop both the client and server end of a web application. In this sense, they provide an end-to-end service, and can be involved in projects that involve databases and building user-facing websites.

PERSONALITY TRAITS

- You are good with computers
- You like to analyse problems/situations
- You like to have clear instructions to follow
- You are comfortable with communicating with others



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 Under this portal there are Central Government schemes offered by different Departments, UGC/AICTE Schemes and State Schemes.*
 - Please visit 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, 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), Ministry of Education 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.



EDUCATIONAL 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 Full Stack Developer a ranges between **INR 24,000 - 1,67,000*** per month*

Source: https://www.payscale.com/research/IN/Job=Full_Stack_Software_Engineer/Salary

WHERE WILL YOU WORK

Places of Work: You can find work in IT companies

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 profession as well as work in your own company

Opportunities for work exist for differently abled in this field.

EXPECTED GROWTH PATH

Fresher Developer → Full Stack Developer → Senior Full Stack Developer

WHERE WILL YOU STUDY?

The course is offered by the Department of Computer Science.

This list of Institutes is indicative only

GOVERNMENT INSTITUTES

1. CR Rao Advanced Institute of Mathematics, Statistics and Computer Science, Hyderabad
2. Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu
3. Atma Ram Sanatan Dharma College, New Delhi
4. Asutosh College, Kolkata
5. Bhaskaracharya College of Applied Sciences, New Delhi
6. College of Applied Science(IHRD), Kundara Kollam, Kerala
7. Government Engineering College, Bikaner, Rajasthan
8. East Calcutta Girls College, Kolkata

PRIVATE INSTITUTES

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

1. Annai College of Arts and Science, Valathur, Tamil Nadu
2. AD Patel Institute of Technology, New Vallabh Nagar, Gujarat
3. All India Institute of Management Studies, Chennai
4. Acropolis Institute of Management Studies and Research, Indore, Madhya Pradesh
5. Acharya Prafulla Chandra College, Kolkata
6. Bangalore City College, Bengaluru
7. Bapatla Engineering College, Bapatla, Andhra Pradesh
8. Bonnie Foi College, Bhopal
9. Birla Institute of Technology and Science, Pilani, Rajasthan
10. Manipal Institute of Technology, Manipal, Karnataka
11. Vellore Institute of Technology (VIT), Vellore, Tamil Nadu
12. Thapar University, Patiala, Punjab

Search keywords...



developer, front end developer, full stack developer

EXAMPLE FROM THE FIELD

Brandon Lyons is a Full Stack Web Developer, with a passion on the frontend development, specifically Vue.js. He graduated in computer Science from the University of Michigan. Lyons is currently working at Amazon web services (AWS) as a full stack software engineer.*

Source: <https://cynicaldeveloper.com/guests/>

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

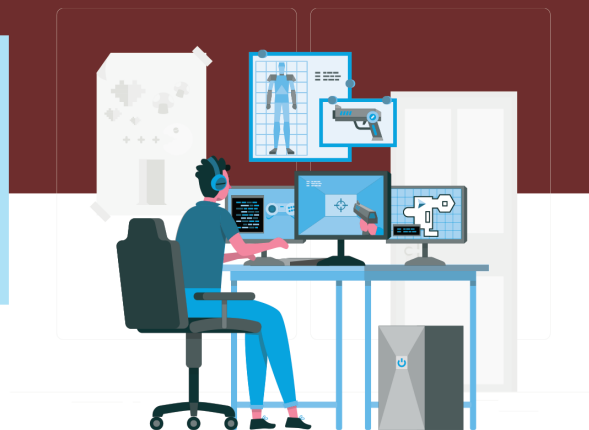
GAME DESIGNER AND DEVELOPER

A Game Designer and Developer is a software engineer, programmer, or scientist who designs tests, and maintains video games. A Game Designer and Developer can work as part of a team and has the final say in the layout of the environment present within the game. She/he is an engineer, as well as a designer at the same time.

PERSONALITY TRAITS



- You are good with computers
- You like to analyse problems/situations
- You like video games
- you are comfortable with working in a team



The approx. course fee ranges between **INR 40,000 - 19,98,000***.

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

SCHOLARSHIPS

• **National Scholarship Portal** - Visit www.scholarships.gov.in. Under this portal there are Central Government schemes offered by different departments, UGC/AICTE Schemes and State Schemes*

• Visit 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, 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)

• Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.

• All banks give education loans



EDUCATIONAL PATHWAY

1. Complete 10 + 2 in any stream
2. Complete Bachelor's degree (B.Des.) in Game Design and Animation followed by Master's degree (M.Des.) in the same discipline

OR

Complete Bachelor's degree in Science (B.Sc.) in Game Design and Animation/Bachelor's degree in Engineering (B.E.) in Information Technology, followed by Master's degree (M.Sc./M.E.) in the same discipline

OR

Complete a Bachelor's degree (B.Des.) in any discipline followed by PG Diploma in Game Designing

Please check the duration of the course during enrolment



EXPECTED INCOME

**The figures are indicative & subject to change*

The approx. salary of a Game Designer ranges between **INR 16,667 -1,67,000*** per month.

Source: https://www.payscale.com/research/IN/Job=Video_Game_Designer/Salary

WHERE WILL YOU WORK?

Places of Work: Game Developing Companies, Production Houses as a VFX Artist

Entrepreneurship: You can set up your own indie game studio

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

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH

Assistant/Junior Game Designer →
Senior Game Designer → Design
Manager → Design Director

WHERE WILL YOU STUDY?

This course is offered by the Department of Design

This list of institutes is indicative only

GOVERNMENT INSTITUTES

1. Gujarat University, Ahmedabad
2. National Institute of Design, Bengaluru
3. National Institute of Design, Gandhinagar
4. National Institute of Design, Amaravati, Andhra Pradesh
5. National Institute of Design, Haryana
6. National Institute of Design Ahmedabad
7. National Institute of Design, Jorhat, Assam
8. National Institute of Design, Madhya Pradesh

PRIVATE INSTITUTES

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

1. Artemisia College of Art and Design, Indore
2. Asian Institute of Design, Bengaluru
3. Lovely Professional University, Phagwara
4. Sharda University, Greater Noida
5. Unitedworld Institute of Design, Ahmedabad
6. Whistling Woods International, Mumbai
7. CG Animation Academy, Pune
8. CMR University School of Science Studies, Bengaluru

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

DISTANCE LEARNING INSTITUTE

Indira Gandhi National Open University (IGNOU)

Search keywords... 

game developer, game creator, game designer

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EXAMPLE FROM THE FIELD

Poornima Seetharaman is one of the seminal figures in the Indian gaming industry and has attracted much needed gaming recognition towards women in the gaming industry. She has pursued a BE in information technology from Pillai College of Engineering. She is the co-founder of Pinaka Interactive and has worked in some of the most notable gaming franchises in the world such as Farmville and Bioshock. In 2020, she became the first Indian game designer to achieve global acclaim, when she was inducted into the Women in Games Hall of Fame.*

Source: <https://www.republicworld.com/technology-news/gaming/poornima-seetharaman-indian-game-designer-in-global-hall-of-fame.html>

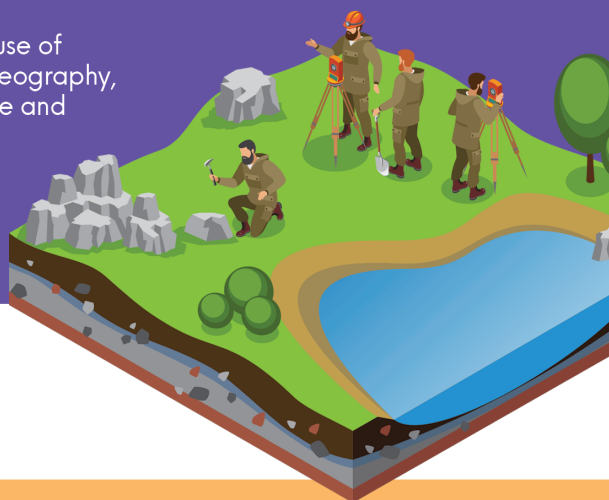
**The above information is for training purposes only and will not be used for any commercial gains*

GEO-INFORMATICS ENGINEER

Geo-Informatics engineering entails the development and use of information science infrastructure to address problems of Geography, Cartography, Geosciences and related branches of Science and Engineering.

PERSONALITY TRAITS

- You like working outdoors
- You like to do experiments
- You like science and maths
- You like to analyse problems/situations



SCHOLARSHIPS

• **Kishore Vaigyanik Protsahan Yojana Scholarship** - This scholarship is provided to students enrolled in the first year of their engineering undergraduate course. Eligibility includes an aptitude test. It is awarded by the Government of India for economically backward students who have a strong aptitude for scientific research.*

• **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.*

• **National Scholarship Portal** - Visit www.scholarships.gov.in. Under this portal there are 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 made 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 15,000 - 14,51,000*** for the full course.

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

EDUCATIONAL PATHWAYS

1. Complete 10+2 in the Science stream (Physics, Chemistry and Mathematics)
2. Complete Bachelor's degree (B.Sc./B.E./B.Tech.) in Geo-Informatics Engineering

OR

Complete Bachelor's degree, followed by a Master's degree (M.Sc./M.E./M.Tech.) in the same field.

OR

Pursue a diploma in Geo-Informatics

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 a Geo-Informatics Engineer ranges between **INR 7,084 - 38,000*** per month.

Source: [https://www.payscale.com/research/IN/-Job=Geographic_Information_Systems_\(GIS\)_Engineer/Salary](https://www.payscale.com/research/IN/-Job=Geographic_Information_Systems_(GIS)_Engineer/Salary)

WHERE WILL YOU WORK

Places of Work: Government or private space agency, Transport company, Civil engineering or Architectural firm, Intelligence firm, Earthquake monitoring centre, Weather- monitoring station, a Military command & control centre, a research laboratory, or even in a university.

Work Environment: Companies usually work for 5 to 6 days a week and 8 to 9 hours everyday. This may vary from company to company. Shift system might be applicable.

Opportunities for differently abled exist in this field

Search keywords...



geographic information system analyst, geo-informatics engineer, geographic information system engineer

EXPECTED GROWTH PATH



Geo-Informatics Assistant → Geo-Informatics Engineer → Geo-Informatics Manager
OR
GIS Trainee → GIS Technician → GIS Operator → GIS Executive → GIS Analyst
→ GIS Specialist → GIS Expert → GIS Manager → GIS Operations Manager

WHERE WILL YOU STUDY?

The course is offered by the Department of Engineering.

This list of institutes is indicative only

GOVERNMENT INSTITUTES

1. Indian Institute of Technology, Mumbai
2. Indian Institute of Technology, Delhi
3. Indian Institute of Technology, Bangalore
4. Indian Institute of Technology, Kharagpur
5. Indian Institute of Technology, Kanpur
6. Andhra University College of Engineering, Visakhapatnam, Andhra Pradesh
7. College of Engineering, Guindy, Chennai, Tamil Nadu

PRIVATE INSTITUTES

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

1. Birla Institute of Technology and Science, Pilani, Rajasthan
2. SRM Institute of Science and Technology, Chennai
3. Symbiosis International University, Pune
4. Manipal University, Jaipur
5. Park College of Engineering and Technology, Coimbatore, Tamil Nadu
6. University of Petroleum and Energy Studies, Uttarakhand
7. Amrita School of Engineering, Kerala
8. Asian International University, Manipur

DISTANCE LEARNING INSTITUTE

Indira Gandhi National Open University (IGNOU)

EXAMPLE FROM THE FIELD



Anne Hale Miglarese's Radiant Earth Foundation provides geospatial analytics using imagery and mapping data to empower informed decision-making to help solve the developing world's greatest social, economic and environmental challenges. Prior to establishing Radiant Earth, she served as chief of the National Oceanic and Atmospheric Administration's Coastal Services Center, where she directed the remote sensing and GIS programs of the organization for 10 years. Miglarese has done both her Bachelor's and Master's in Geography from University of South Carolina.*

Source:

<https://geospatialworldforum.org/2019/speakers-bio.asp?id=gwf2019A31>

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

HELP DESK ANALYST

A tech professional tasked with providing it's company's customers with technical support for any IT-related matter such as issues regarding computer hardware, applications, networks and operating systems.

PERSONALITY TRAITS

- Customer service orientation
- Clear communication skills
- Technical proficiency
- Problem-solving ability
- Patience and empathy



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 Under this portal there are Central Government schemes offered by different Departments, UGC/AICTE Schemes and State Schemes.*

• Please visit 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, 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), Ministry of Education 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.



EDUCATIONAL PATHWAY

1. Complete 10+2 in the Science stream (Physics, Chemistry and Mathematics)

2. Complete a Bachelor's degree (B.Tech/B.Sc./BCA) in Computer Science/Information Technology
OR

Complete a Bachelor's degree followed by a Master's degree (M.Tech/M.Sc./MCA) in the same field
OR

Complete a PG Diploma in Computer Science

Please check the duration of the course during enrolment



EXPECTED INCOME

**The figures are indicative & subject to change*

The approx. salary of a Help Desk Analyst ranges between **INR 16,500 - 53,100*** per month

Source: https://www.payscale.com/research/IN/Job=Service_Desk_Analyst/Salary

WHERE WILL YOU WORK

Places of Work: You can find work in the IT Department of organisations in a wide range of industries.

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 profession

Opportunities for work exist for differently abled in this field.

EXPECTED GROWTH PATH

Help Desk Technician → Administrator/
Network Administrator → Systems
Architect/ Designs Architect

WHERE WILL YOU STUDY?

The course is offered by the Department of Computer Science.

This list of Institutes is indicative only

GOVERNMENT INSTITUTES

1. CR Rao Advanced Institute of Mathematics, Statistics and Computer Science, Hyderabad
2. Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu
3. Atma Ram Sanatan Dharma College, New Delhi
4. Asutosh College, Kolkata
5. Bhaskaracharya College of Applied Sciences, New Delhi
6. College of Applied Science (IHRD), Kundra Kollam, Kerala
7. Government Engineering College, Bikaner, Rajasthan
8. East Calcutta Girls College, Kolkata
9. National Institute of Electronics & Information Technology (NIELIT), New Delhi

PRIVATE INSTITUTES

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

1. Annai College of Arts and Science, Valathur, Tamil Nadu
2. AD Patel Institute of Technology, New Vallabh Nagar, Gujarat
3. All India Institute of Management Studies, Chennai
4. Acropolis Institute of Management Studies and Research, Indore
5. Acharya Prafulla Chandra College, Kolkata
6. Bangalore City College, Bengaluru
7. Bapatla Engineering College, Bapatla, Andhra Pradesh
8. Bonnie Foi College, Bhopal
9. Birla Institute of Technology and Science, Pilani, Rajasthan
10. Manipal Institute of Technology, Manipal
11. Vellore Institute of Technology (VIT), Vellore
12. Thapar University, Patiala, Punjab

Information on Institute rankings is available at -
<https://www.nirfindia.org/Rankings/2023/Ranking.html>

Search keywords...



help desk technician, help desk analyst,
service desk analyst

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EXAMPLE FROM THE FIELD

Billy Abbas is a Service Desk Analyst from Leeds, UK who has completed his bachelor of science (BS) in information technology. He was also among the SDI best Service desk analyst finalists. He is currently affiliated with the Leeds Beckett University.*

Source: <https://www.servicedeskstitute.com/we-had-a-chat-to-our-service-desk-analyst-of-the-year-2020-finalists/>

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

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.

PERSONALITY TRAITS



- 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

- **Kishore Vaigyanik Protsahan Yojana Scholarship** – This scholarship is provided to students enrolled in the first year of their engineering undergraduate course. Eligibility includes an aptitude test. It is awarded by the Government of India for economically backward students who have a strong aptitude for scientific research.*
 - **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.*
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 - **National Scholarship Portal** – Visit www.scholarships.gov.in Under this portal there are 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

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- 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)



EDUCATIONAL 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. Delhi Technological University, New Delhi
2. Lalbhai Dalpatbhai College of Engineering, Ahmedabad
3. Indian Institute of Engineering Science and Technology, Kolkata
4. Government Polytechnic, Nashik, Maharashtra
5. Government Polytechnic, Mumbai
6. Aligarh Muslim University, Aligarh, Uttar Pradesh
7. NIMS University, Jaipur, Rajasthan
8. Government Polytechnic For Girls, Ahmedabad

PRIVATE INSTITUTES

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

1. Manipal Institute of Technology, Manipal, Karnataka
2. PSG Collage of Technology, Coimbatore, Tamil Nadu
3. Dayananda Sagar College of Engineering, Bangalore
4. Vellore Institute of Technology (VIT), Vellore, Tamilnadu
5. Birla Institute of Technology, Mesra, Jharkhand

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

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.*

INTERNET OF THINGS (IOT) SOLUTIONS ARCHITECT

IT professionals who are responsible for strategy-making and overseeing the deployment of IoT (Internet of Things) solutions across organisations are known as Internet of Things (IoT) Solutions Architect. They develop practical uses and applications of Internet of Things (IoT) technology. The IoT solutions architect typically works with engineers and salespeople to facilitate process development.

PERSONALITY TRAITS

- You are good with computers
- You like to analyse problems/situations
- You pay attention to details while working
- You are comfortable with communicating with others



The approx. course fee ranges between **INR 40,000 - 5,40,000***

**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*

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• Please visit 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, 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), Ministry of Education 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.



EDUCATIONAL 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/Internet of Things (IoT)

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 Internet of Things (IoT) Solutions Architect ranges between **INR 1,67,000 - 2,50,000*** per month*

Source: https://www.payscale.com/research/IN/Job=Software_Architect/Salary/e5a6e350/Internet-of-Things-IoT

WHERE WILL YOU WORK

Places of Work: You can find work in the Telecommunication industry, in IT Services & Consulting, Industrial Machinery and also in the Electronic and electronic product manufacturing sector

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 Internet of Things (IoT) Solutions Architect → Senior Internet of Things (IoT) Solutions Architect

WHERE WILL YOU STUDY?

The course is offered by the Department of Computer Science.

This list of Institutes is indicative only

GOVERNMENT INSTITUTES

1. Devi Ahilya Vishwavidyalaya, Indore
2. Indian Institute of Technology Jodhpur
3. JC Bose University of Science and Technology, Faridabad Haryana
4. Jawaharlal Nehru Technological University, Anantpur Andhra Pradesh
5. Veermata Jijabai Technological Institute, Mumbai
6. Government College of Engineering, Kannur
7. University Visvesvaraya College of Engineering, Karnataka
8. Gujarat Technological University, Ahmedabad

PRIVATE INSTITUTES

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

1. Gulzar Group of Institutes, Ludhiana, Punjab
2. Shoolini University of Biotechnology and Management Sciences, Bajhol, Himachal Pradesh
3. Christ University, Bengaluru
4. Chandigarh University, Chandigarh
5. Sharda University, Greater Noida
6. Vellore Institute of Technology (VIT), Vellore, Tamil Nadu
7. Presidency University, Bangalore
8. Sathyabama Institute of Science and Technology, Chennai
9. Birla Institute of Technology and Science, Pilani, Rajasthan
10. Manipal Institute of Technology, Manipal, Karnataka
11. Vellore Institute of Technology (VIT)
12. Thapar University, Patiala, Punjab

Information on Institute rankings is available at - <https://www.nirfindia.org/Rankings/2023/Ranking.html>

Search keywords... 

internet of things, internet of things analyst, internet of things expert

EXAMPLE FROM THE FIELD

Danilo Diaz is an Internet of Things Solutions Architect with Microsoft. He has completed a Bachelor's in Computer Science as well as an MBA in Management from Arcadia university. Diaz is focused on helping organizations of all sizes fully maximize the potential that IoT brings to their industry.*

Source: <https://www.iotforall.com/webinar/softeq-75-of-iot-projects-fail>

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

NETWORK ADMINISTRATOR

A Network Administrator deals with both the software and hardware of a computer network in a company. He is responsible for supervising and maintaining the technological network and is the professional to go to in case of technical or computer-based issues.

PERSONALITY TRAITS

- You are good with computers
- You like to analyse problems/situations
- You pay attention to details while working
- You like to lead



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 Under this portal there are Central Government schemes offered by different Departments, UGC/AICTE Schemes and State Schemes.*

• Please visit 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)*

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• Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.

• All banks give education loans.



EDUCATIONAL 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

OR

Complete a Bachelor's degree (B.Tech/B.Sc./BCA/M.E.) in Network Engineering 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 Network Administrator ranges between **INR 16,084 - 83,334*** per month.

Source: https://www.payscale.com/research/IN/Job=Network_Administrator/Salary



WHERE WILL YOU WORK

Places of Work: You can work in Architectural, Engineering and related services, as well as in Computer systems design services.

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

Network Engineering Trainee → Network Engineering Assistant → Network Administrator → Chief Network Administrator

WHERE WILL YOU STUDY?

The course is offered by the Department of Computer Science.

This list of Institutes is indicative only

GOVERNMENT INSTITUTES

1. CR Rao Advanced Institute of Mathematics, Statistics and Computer Science, Hyderabad
2. Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu
3. Atma Ram Sanatan Dharma College, New Delhi
4. Asutosh College, Kolkata
5. Bhaskaracharya College of Applied Sciences, New Delhi
6. College of Applied Science (IHRD), Kundra Kollam, Kerala
7. Government Engineering College, Bikaner, Rajasthan
8. East Calcutta Girls College, Kolkata

PRIVATE INSTITUTES

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

1. Annai College of Arts and Science, Valathur, Tamil Nadu
2. AD Patel Institute of Technology, New Vallabh Nagar, Gujarat
3. All India Institute of Management Studies, Chennai
4. Acropolis Institute of Management Studies and Research, Indore
5. Acharya Prafulla Chandra College, Kolkata
6. Bangalore City College, Bangalore
7. Bapatla Engineering College, Bapatla, Andhra Pradesh
8. Bonnie Foi College, Bhopal
9. Birla Institute of Technology and Science, Pilani, Rajasthan
10. Manipal Institute of Technology, Manipal, Karnataka
11. Vellore Institute of Technology (VIT), Vellore, Tamil Nadu
12. Thapar University, Patiala, Punjab

Information on Institute rankings is available at - <https://www.nirfindia.org/Rankings/2023/Ranking.html>

Search keywords... 

network administrator, network engineer, network architect

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EXAMPLE FROM THE FIELD

Brent D. Stewart is a Network Administrator at CommScope in North Carolina, where he focuses on design and implementation of an international IP network. Brent has worked in fiber-optic manufacturing R&D, as a network consultant, and as a certified Cisco instructor. He received a BS in physics from Lenoir-Rhyne College and is currently finishing an MS in computer science/information security from James Madison University. He is currently based in North Carolina.*

Source: <http://etutorials.org/Misc/ccnp+bsci+exam+certification+guide/About+the+Author/>

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

PROGRAMMER/CODER/SOFTWARE ENGINEER

A Computer Programmer designs, develops and tests software that meet their client's needs. They also search for bugs in the program and try to remove those bugs to improve the overall utility of the program.

PERSONALITY TRAITS

- You are good with computers
- You like to analyse problems/situations
- You pay attention to details while working
- You are comfortable with communicating with others



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 Under this portal there are Central Government schemes offered by different Departments, UGC/AICTE Schemes and State Schemes.*
 - Please visit 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, 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), Ministry of Education 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.

EDUCATIONAL 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
- OR
- Pursue a PG Diploma in Information System

Please check the duration of the course during enrolment



EXPECTED INCOME

**The figures are indicative & subject to change*

The approx. salary of a Programmer/Coder/Software Engineer ranges between **INR 20,750 - 83,334*** per month

Source: https://www.payscale.com/research/IN/Job=Software_Engineer_%2F_Developer_%2F_Programmer/Salary



WHERE WILL YOU WORK

Places of Work: You can work in IT companies

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 as well as start your own company.

Opportunities for work exist for differently abled in this field.

EXPECTED GROWTH PATH



Coder → Programmer →
Software Engineer

WHERE WILL YOU STUDY?

The course is offered by the Department of Computer Science.

This list of Institutes is indicative only

GOVERNMENT INSTITUTES

1. CR Rao Advanced Institute of Mathematics, Statistics and Computer Science, Hyderabad
2. Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu
3. Atma Ram Sanatan Dharma College, New Delhi
4. Asutosh College, Kolkata
5. Bhaskaracharya College of Applied Sciences, New Delhi
6. College of Applied Science (IHRD), Kundra Kollam, Kerala
7. Government Engineering College, Bikaner
8. East Calcutta Girls College, Kolkata

PRIVATE INSTITUTES

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

1. Annai College of Arts and Science, Valathur, Tamil Nadu
2. AD Patel Institute of Technology, New Vallabh Nagar, Gujarat
3. All India Institute of Management Studies, Chennai
4. Acropolis Institute of Management Studies and Research, Indore
5. Acharya Prafulla Chandra College, Kolkata
6. Bangalore City College, Bangalore
7. Bapatla Engineering College, Andhra Pradesh
8. Bonnie Foi College, Bhopal
9. Birla Institute of Technology and Science, Pilani, Rajasthan
10. Manipal Institute of Technology, Manipal, Karnataka
11. Vellore Institute of Technology (VIT), Vellore, Tamil Nadu
12. Thapar University, Patiala, Punjab

Information on Institute rankings is available at -
<https://www.nirfindia.org/Rankings/2023/Ranking.html>

Search keywords...



programmer, coder, software engineer

EXAMPLE FROM THE FIELD



Shalini Sah works as Software Engineering Manager at Meta. She has done her BTech in Computer Science and Engineering from National Institute of Technology Durgapur. According to NIT Durgapur Alumni Association, Sah is considered the best female coder in India, according to Hari Ram Choudhary, Former vice-chairman, ACM NIT Surat.*

Source: https://www.codechef.com/users/mischievous_me

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SEO MANAGER

SEO (Search Engine Optimization) encompasses all activities, that help a website rank better in search engines by leveraging the right keyword. An SEO manager is trained in providing the strategies required to find visitors who will need a particular service and converting them to a customer.

PERSONALITY TRAITS

- You are good with computers
- You like to analyse problems/situations
- You like to take on new responsibilities
- You are comfortable with communicating with others



The approx. course fee ranges between **INR 45,000 - 30,00,000***

**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*
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- Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.
- All banks give education loans.



EDUCATIONAL 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 (MBA) in Information System/Digital Marketing
OR
Complete a Bachelor's degree (BA) in in English/ Mass communication followed by a Master's degree (MBA) in Information System/Digital Marketing

Please check the duration of the course during enrolment



EXPECTED INCOME

**The figures are indicative & subject to change*

The approx. salary of a SEO Manager ranges between **INR 19,500 - 84,000*** per month.

Source: [https://www.payscale.com/research/IN/Job=Search_Engine_Optimization_\(SEO\)_Manager/Salary](https://www.payscale.com/research/IN/Job=Search_Engine_Optimization_(SEO)_Manager/Salary)

WHERE WILL YOU WORK

Places of Work: You can work in any company or business with an online presence who wishes to reach more people, such as startups, educational institutions 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 work in your own company as well as pursue freelancing in this profession.

Opportunities for work exist for differently abled in this field.

EXPECTED GROWTH PATH

SEO Analyst → SEO Strategist → SEO Manager → Head of SEO → Director of SEO

WHERE WILL YOU STUDY?

The course is offered by the Department of Computer Science.

This list of Institutes is indicative only

GOVERNMENT INSTITUTES

1. CR Rao Advanced Institute of Mathematics, Statistics and Computer Science, Hyderabad
2. Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu
3. Atma Ram Sanatan Dharma College, New Delhi
4. Asutosh College, Kolkata
5. Bhaskaracharya College of Applied Sciences, New Delhi
6. College of Applied Science, Kundara Kollam, Kerala
7. Government Engineering College, Bikaner
8. East Calcutta Girls College, Kolkata
9. Indian Institute of Mass Communication (IIMC), Delhi

PRIVATE INSTITUTES

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

1. Annai College of Arts and Science, Valathur, Tamil Nadu
2. AD Patel Institute of Technology, New Vallabh Nagar, Gujarat
3. All India Institute of Management Studies, Chennai
4. Acropolis Institute of Management Studies and Research, Indore
5. Acharya Prafulla Chandra College, Kolkata
6. Bangalore City College, Bengaluru
7. Bapatla Engineering College, Andhra Pradesh
8. Bonnie Foi College, Bhopal
9. Birla Institute of Technology and Science, Pilani, Rajasthan
10. Manipal Institute of Technology, Manipal, Karnataka
11. Vellore Institute of Technology, Vellore, Tamil Nadu
12. Thapar University, Patiala, Punjab

Information on Institute rankings is available at - <https://www.nirfindia.org/Rankings/2023/Ranking.html>

Search keywords... 

search engine optimisation, keywords engineer, search engine optimisation manager

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EXAMPLE FROM THE FIELD

Stephanie Castillo is Associate SEO manager for The New York Times. Previously she has worked with media houses like Hearst Magazines and Time Inc's news group. She has BA in English and Mass Communication from the King's College.*

Source: <https://www.oprahdaily.com/author/209917/stephanie-castillo/>

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SOFTWARE APPLICATION PACKAGER

An application package or software package is a collection of programmes or modules that is directed at some generic application and can be tailored to the needs of a specific platform. A Software Application Packager analyses organisations' needs and existing processes, assesses necessary changes and writes custom software.

PERSONALITY TRAITS

- You are good with computers
- You like to analyse problems/situations
- You like to have clear instructions to follow
- You are comfortable with communicating with others



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

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

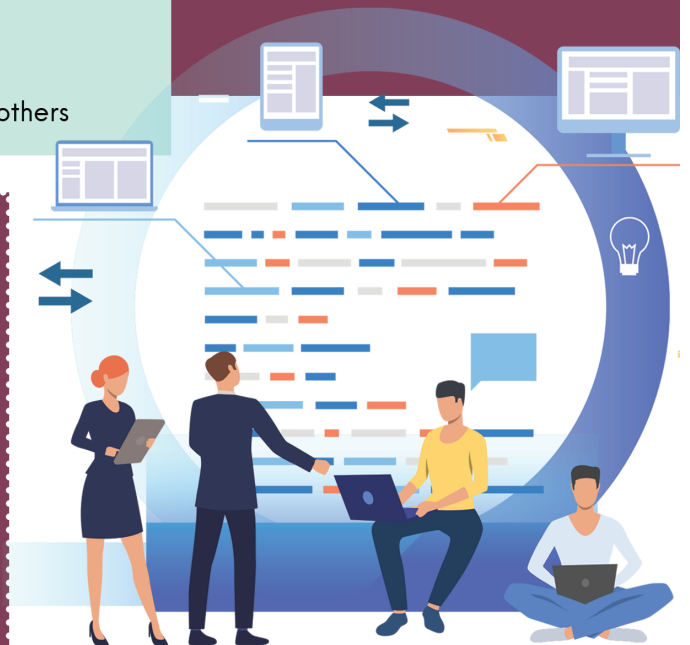
SCHOLARSHIPS

- **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 Under this portal there are Central Government schemes offered by different Departments, UGC/AICTE Schemes and State Schemes.*
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**(Availability of these scholarships can vary from time to time)*

LOANS

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- Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.
- All banks give education loans.



EDUCATIONAL 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 Software Application Packager ranges between **INR 23,000 - 1,00,000*** per month*

Source: <https://in.talent.com/salary?-job=application+packaging>

WHERE WILL YOU WORK

Places of Work: You can find work in IT companies and Multinational companies.

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 profession.

Opportunities for work exist for differently abled in this field.

EXPECTED GROWTH PATH

Trainee Software Packager → Software Packager → Senior Software Packager → Packaging Head

WHERE WILL YOU STUDY?

The course is offered by the Department of Computer Science.

This list of Institutes is indicative only

GOVERNMENT INSTITUTES

1. CR Rao Advanced Institute of Mathematics, Statistics and Computer Science, Hyderabad
2. Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu
3. Atma Ram Sanatan Dharma College, New Delhi
4. Asutosh College, Kolkata
5. Bhaskaracharya College of Applied Sciences, New Delhi
6. College of Applied Science, Kundara Kollam, Kerala
7. Government Engineering College, Bikaner, Rajasthan
8. East Calcutta Girls College, Kolkata

PRIVATE INSTITUTES

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

1. Annai College of Arts and Science, Valathur, Tamil Nadu
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3. All India Institute of Management Studies, Chennai
4. Acropolis Institute of Management Studies and Research, Indore
5. Acharya Prafulla Chandra College, Kolkata
6. Bangalore City College, Bangalore
7. Bapatla Engineering College, Bapatla, Andhra Pradesh
8. Bonnie Foi College, Bhopal
9. Birla Institute of Technology and Science, Pilani, Rajasthan
10. Manipal Institute of Technology, Manipal, Karnataka
11. Vellore Institute of Technology, Vellore, Tamil Nadu
12. Thapar University, Patiala, Punjab

Information on Institute rankings is available at - <https://www.nirfindia.org/Rankings/2023/Ranking.html>

Search keywords... 

application packager, software application packager, packaging head of software

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EXAMPLE FROM THE FIELD

Kiran Mantagi is the Technical Product Manager for Flexera Application Readiness product line - AdminStudio and Workflow Manager. He has received his bachelor's degree in Electronics and communication engineering, followed by a Master's in Computer Science from Manipal Institute of Technology. Kiran has over eight years of experience in application packaging.*

Source: <https://appmanagevent.com/index.php/speakers/519-kiran-mantagi-flexera>

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

SYSTEMS ANALYST

Systems Analysts are IT professionals whose primary work is to ensure that systems, infrastructures and computer systems are functioning effectively and efficiently.

PERSONALITY TRAITS

- You are good with computers
- You like to analyse problems/situations
- You pay attention to details while working
- You are comfortable with communicating with others



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*
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- Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.
- All banks give education loans.



EDUCATIONAL 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
- OR
- Pursue a PG Diploma in Information System

Please check the duration of the course during enrolment



EXPECTED INCOME

**The figures are indicative & subject to change*

The approx. salary of a Systems Analyst ranges between **INR 20,667 - 83,334*** per month.

Source: https://www.payscale.com/research/IN/Job=Systems_Analyst/Salary

WHERE WILL YOU WORK

Places of Work: You may work directly for an organization or as contractors, often for an information technology firm.

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 find freelancing in this profession

Opportunities for work exist for differently abled in this field.

EXPECTED GROWTH PATH

Junior Systems Analyst → Senior Systems Analyst

WHERE WILL YOU STUDY?

The course is offered by the Department of Computer Science.

This list of Institutes is indicative only

GOVERNMENT INSTITUTES

1. CR Rao Advanced Institute of Mathematics, Statistics and Computer Science, Hyderabad
2. Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu
3. Atma Ram Sanatan Dharma College, New Delhi
4. Asutosh College, Kolkata
5. Bhaskaracharya College of Applied Sciences, New Delhi
6. College of Applied Science, Kundara Kollam, Kerala
7. Government Engineering College, Bikaner, Rajasthan
8. East Calcutta Girls College, Kolkata
9. University of Delhi (DU), Delhi

PRIVATE INSTITUTES

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

1. Annai College of Arts and Science, Valathur, Tamil Nadu
2. AD Patel Institute of Technology, New Vallabh Nagar, Gujarat
3. All India Institute of Management Studies, Chennai
4. Acropolis Institute of Management Studies and Research, Indore
5. Acharya Prafulla Chandra College, Kolkata
6. Bangalore City College, Bangalore
7. Bapatla Engineering College, Andhra Pradesh
8. Bonnie Foi College, Bhopal
9. Birla Institute of Technology and Science, Pilani, Rajasthan
10. Manipal Institute of Technology, Manipal, Karnataka
11. Vellore Institute of Technology, Vellore, Tamil Nadu
12. Thapar University, Patiala, Punjab

Information on Institute rankings is available at -
<https://www.nirfindia.org/Rankings/2023/Ranking.html>

Search keywords... 

*systems analyst, systems administrator,
systems architect*

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EXAMPLE FROM THE FIELD

Manjula Ganta is the director of Application Development, Global Product & Technology at ADP, Inc. She pursued a Bachelor's in Mathematics and simultaneously enrolled into a Diploma course in Systems Management programme from the National Institute of Information Technology (NIIT). She later earned her MBA with a major in finance.*

Source: <https://www.adp.com/spark/articles/2020/05/adp-women-in-stem-manjula-ganta.aspx>

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USER EXPERIENCE DESIGNER

In the digital world, UX refers to everything that affects a user's interaction with a digital product. Hence, as a UX Designer you will ensure that the 'user experience' for individuals using a website or an application or a digital service is as easy as possible.

PERSONALITY TRAITS

- You have a creative bent of mind
- You are comfortable communicating with others
- You like to do experiments



The approx. course fee ranges between **INR 6,630 - 5,28,000***

**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 Under this portal there are Central Government schemes offered by different Departments, UGC/AICTE Schemes and State Schemes.*
 - Please visit 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, 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), Ministry of Education 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.



EDUCATIONAL PATHWAY

1. Complete 10+2 in the Science stream (Physics, Chemistry and Mathematics)
 2. Complete a Bachelor's degree in User Experience Design/Computer Science or Engineering
- OR
- Complete a Bachelor's degree followed by a Master's degree in the same field
- OR
- Pursue a certificate/diploma course in UX Design

Please check the duration of the course during enrolment



EXPECTED INCOME

**The figures are indicative & subject to change*

The approx. salary of a UX Designer ranges between **INR 21,000 - 1,50,000*** per month.

Source: www.payscale.com/rsearch/IN/Job=UX_Designer/Salary

WHERE WILL YOU WORK

Places of work: Any company, which offers an application, software, or a digital product is in need of a UX designer. For example multinational corporation, digital communications technology companies, software companies and so on

Work Environment: You have to work in offices or studios and meet strict deadlines. You may be needed to interact with multiple people and juggle multiple projects simultaneously. It entails unconventional working hours.

Entrepreneurship: You can choose to be a freelance UX Designer

Opportunities for work exist for differently abled in this field.

EXPECTED GROWTH PATH

UX Designer → Senior UX Designer → Head UX Designer or Principal UX Designer

WHERE WILL YOU STUDY?

The course is offered by the Department of Computer Science.

This list of Institutes is indicative only

GOVERNMENT INSTITUTES

1. IDC School of Design, Il, Bombay, Mumbai
2. Department of Design, IIT Guwahati, Guwahati
3. National Institute of Design (NID), Ahmedabad
4. National Institute of Design (NID), Gandhinagar
5. National Institute of Design (NID), Bengaluru
6. National Institute of Design (NID), Kurukshetra
7. National Institute of Design (NID), Vijayawada,
8. National Institute of Design (NID), Jorhat

PRIVATE INSTITUTES

(To be checked with UGC and AICTE for its affiliation and accreditation)

1. Srishti School of Art and Design, Bangalore
2. UID, Karnavati University, Gandhinagar, Gujarat
3. Chitkara School of Art & Design, Chitkara University, Chandigarh-Patiala NH, Punjab
4. Symbiosis Institute of Design, Pune
5. Maharashtra Institute of Design, Pune
6. Apeejay Institute of Design, New Delhi
7. Sushant School of Design, Ansal University, Haryana
8. UPES School of Design, Dehradun
9. Birla Institute of Technology and Science, Pilani, Rajasthan
10. Manipal Institute of Technology, Manipal, Karnataka
11. Vellore Institute of Technology, Vellore, Tamil Nadu
12. Thapar University, Patiala, Punjab

Information on Institute rankings is available at - <https://www.nirfindia.org/Rankings/2023/Ranking.html>

Search keywords... 

designer job, product designer jobs, user experience designer

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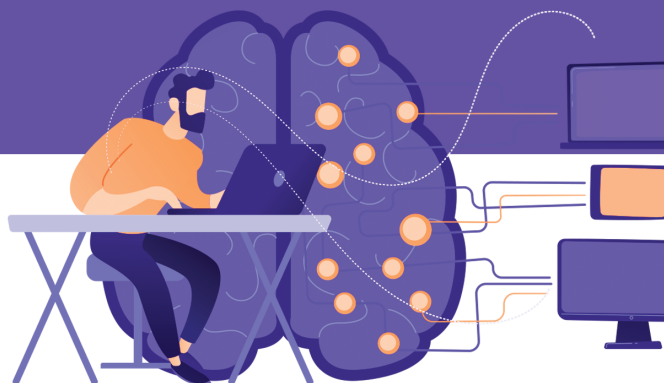
VIRTUAL REALITY ENGINEER

Virtual Reality (VR) is a computer-technology-driven atmosphere with realistic-looking objects and images that offer users the feeling of being completely engrossed in their environment. A Virtual Reality Engineer is therefore a person who uses technology to create a virtual reality environment which can be experienced in an electronic device (such as VR headsets).

PERSONALITY TRAITS



- You are good with computers
- You are good with gadgets
- You like to analyse problems/situations
- You like working with numbers



SCHOLARSHIPS

- **Kishore Vaigyanik Protsahan Yojana Scholarship** – This scholarship is provided to students enrolled in the first year of their engineering undergraduate course. Eligibility includes an aptitude test. It is awarded by the Government of India for economically backward students who have a strong aptitude for scientific research.*
 - **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.*
 - **National Scholarship Portal** – Visit www.scholarships.gov.in Under this portal there are 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 the 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 45,000-21,00,000***

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

EDUCATIONAL PATHWAY

1. Complete 10 + 2 in the Science stream (Physics, Chemistry and Maths)
 2. Complete Bachelor's degree (B.Sc./B.E./B.Tech) in Artificial Engineering and Virtual Reality
- 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 a Virtual Reality Engineer ranges between **INR 30,000 - 60,000*** per month.

Source : https://www.payscale.com/research/IN/Skill=Virtual_Reality/Salary

WHERE WILL YOU WORK

Places of Work: Gaming industry, Entertainment, Healthcare and Automotive industry among others

Work Environment: Companies usually work for 5 to 6 days a week and 8 to 9 hours every day. This may vary from company to company. Shift system might be applicable.

Opportunities for differently abled exist in this field

EXPECTED GROWTH PATH



Junior Developer → Virtual Reality Engineer → Senior Developer

Search keywords...



WHERE WILL YOU STUDY?

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

GOVERNMENT INSTITUTES

1. Indian Institutes of Technology, Madras, Chennai, Tamil Nadu
2. Indian Institutes of Technology, Kanpur, Uttar Pradesh
3. Indian Institutes of Technology, Guwahati, Assam
4. Periyar University, Salem, Tamil Nadu
5. Indian Institutes of Technology, Jodhpur, Rajasthan
6. IIIT Bhubaneswar, Bhubaneswar, Odisha
7. Indian Institutes of Technology, Roorkee, Uttarakhand

PRIVATE INSTITUTES

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

1. NorthCap University, Gurgaon, Haryana
2. Chandigarh University, Chandigarh
3. Presidency University, Bangaluru, Karnataka
4. Chitkara University, Baddi, Himachal Pradesh
5. Lingaya's Vidyapeeth, Faridabad, Haryana
6. Birla Institute of Technology and Science, Pilani, Rajasthan

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



EXAMPLE FROM THE FIELD

Mr. Aryaman Vir is the Founder & CEO of MYRE Capital, a tech-enabled fractional ownership platform. Aryaman holds an undergraduate degree in Network and Social Systems Engineering and a Master's in Systems Engineering from the University of Pennsylvania. His background in engineering and a keen interest in algorithms and big data analytics has helped him envision a robust model that caters to a wide range of audiences interested in safe and profit-yielding investments in the real estate sector.*

Source:

<https://www.digitalfirstmagazine.com/india-edition-august-2021-virtual-reality-trends-in-2021/>

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

WEB ANALYST

A Web Analyst determines how much traffic a website receives by tracking and analysing user activities on the website. They collect information about the number of visitors to a website and the number of page views.

PERSONALITY TRAITS

- You are good with computers
- You are good with numbers
- You like to analyse problems/situations
- You pay attention to details while working



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 Under this portal there are Central Government schemes offered by different Departments, UGC/AICTE Schemes and State Schemes.*
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- Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.
- All banks give education loans.



EDUCATIONAL 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
- OR
- Pursue a PG Diploma in Information System

Please check the duration of the course during enrolment



EXPECTED INCOME

**The figures are indicative & subject to change*

The approx. salary of a Web Analyst ranges between **INR 16,500 - 75,000*** per month.

Source: https://www.payscale.com/research/IN/Job=Web_Analyst/Salary

WHERE WILL YOU WORK

Places of Work: You can work in any company or business with an online presence who wishes to reach more people, such as startups, educational institutions 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 work in your own company as well as pursue freelancing in this profession.

Opportunities for work exist for differently abled in this field.

EXPECTED GROWTH PATH



Junior Web Analyst →
Senior Web analyst

WHERE WILL YOU STUDY?

The course is offered by the Department of Computer Science.

This list of Institutes is indicative only

GOVERNMENT INSTITUTES

1. CR Rao Advanced Institute of Mathematics, Statistics and Computer Science, Hyderabad
2. Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu
3. Atma Ram Sanatan Dharma College, New Delhi
4. Asutosh College, Kolkata
5. Bhaskaracharya College of Applied Sciences, New Delhi
6. College of Applied Science, Kundara Kollam, Kerala
7. Government Engineering College, Bikaner, Rajasthan
8. East Calcutta Girls College, Kolkata

PRIVATE INSTITUTES

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

1. Annai College of Arts and Science, Valathur, Tamil Nadu
2. AD Patel Institute of Technology, New Vallabh Nagar, Gujarat
3. All India Institute of Management Studies, Chennai
4. Acropolis Institute of Management Studies and Research, Indore
5. Acharya Prafulla Chandra College, Kolkata
6. Bangalore City College, Bangalore
7. Bapatla Engineering College, Bapatla, Andhra Pradesh
8. Bonnie Foi College, Bhopal
9. Birla Institute of Technology and Science, Pilani, Rajasthan
10. Manipal Institute of Technology, Manipal, Karnataka
11. Vellore Institute of Technology, Vellore, Tamil Nadu
12. Thapar University, Patiala, Punjab

Information on Institute rankings is available at -
<https://www.nirfindia.org/Rankings/2023/Ranking.html>

Search keywords...



web analyst, web scientist, web architect

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EXAMPLE FROM THE FIELD



Nikhalesh Patel is the Senior Web Analyst at iMedia Designs. He has completed his B.Tech in computer science from BMS Institute of Technology and Management, after which he pursued a Masters in applied Science (M.Asc) in Software engineering from Concordia University. He is responsible for developing custom web application on LAMP/WAMP environment and designing APIs for mobile web services.*

Source: <https://userpeek.com/blog/web-analysts-you-should-follow/>

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WEB DESIGNER

A Web Designer is responsible for making websites interactive, dynamic, attractive while providing access to the customers to their desired information. A Web Designer is responsible for creating the design and layout of a website or web pages. Web Designers can work on a brand new website or update an already existing site.

PERSONALITY TRAITS



- You are good with computers
- You pay attention to details while working
- You like to have clear instructions to follow
- You like to work in a team



The approx. course fee ranges between **INR 19,000 - 2,50,000***.

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

SCHOLARSHIPS

• **National Scholarship Portal** - Visit www.scholarships.gov.in. Under this portal there are Central Government schemes offered by different departments, UGC/AICTE Schemes and State Schemes*

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• Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.

• All banks give education loans



EDUCATIONAL PATHWAY

1. Complete 10 + 2 in Science stream (Physics, Chemistry and Mathematics)
2. Complete Bachelor's degree in Arts (B.A.)/Science (B.Sc.) in Multimedia and Web Design followed by Master's degree in Arts (M.A.)/Science (M.Sc.) in E-commerce and Web Design

OR

Complete Bachelor's degree in any subject of your choice and then complete PG Diploma in Web Design

Please check the duration of the course during enrolment



EXPECTED INCOME

**The figures are indicative & subject to change*

The approx. salary of a Web Designer ranges between **INR 10,000 - 62,416*** per month.

Source: https://www.payscale.com/research/IN/Job=Web_Designer/Salary

WHERE WILL YOU WORK?

Places of Work: Software Companies, IT Consultancies, Specialist Web Design Companies, Large Corporate Organisations, and in any organisation that uses Computer Systems

Entrepreneurship: You can also start your own web designing company offering your services to clients

Work Environment: You will typically work 5 to 6 days a week for 8 to 9 hours per day. Shift system is applicable.

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH

Trainee → Web Designer → Senior Web Designer

Search keywords... 

web designer, web developer, front-end web developer

WHERE WILL YOU STUDY?

This course is offered by the Department of Science/Multimedia Design

This list of institutes is indicative only

GOVERNMENT INSTITUTES

1. Government College, Rajahmundry, Andhra Pradesh
2. Amardeep Singh Shergill Memorial College, Mukandpur, Punjab
3. Government Polytechnic, Ghaziabad
4. Government Polytechnic, Lucknow
5. Institute of Computer Science, Ujjain, Madhya Pradesh
6. National Institute of Technical Teachers Training and Research, Kolkata
7. National Institute of Electronics & Information Technology, Kolkata
8. National Institute of Design, Mumbai

PRIVATE INSTITUTES

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

1. De Paul Institute of Science and Technology, Kochi, Kerala
2. DKTE Society's Textile and Engineering Institute, Maharashtra
3. Hans Raj Mahila Maha Vidyalaya, Jalandhar
4. International Academy of Computer Graphics, Hyderabad
5. ICAT Design and Media College, Hyderabad
6. Lyallpur Khalsa College, Jalandhar
7. 7 Star Academy, Kolkata
8. Asian Educational Institute, Patiala, Punjab

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

DISTANCE LEARNING INSTITUTE

Indira Gandhi National Open University (IGNOU)

EXAMPLE FROM THE FIELD

Chris Coyier a front end web developer and web designer as well as the co-founder of CodePen which is an online community for testing and showcasing user-created HTML, CSS and JavaScript code snippets. Chris graduated from the University of Wisconsin, graduating in Graphic Design. He now co-hosts a web development podcast known as ShopTalk.*

Source: <https://www.creativebloq.com/web-design/names-every-designer-should-know-11135423>

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