

# 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.

## PERSONAL COMPETENCIES

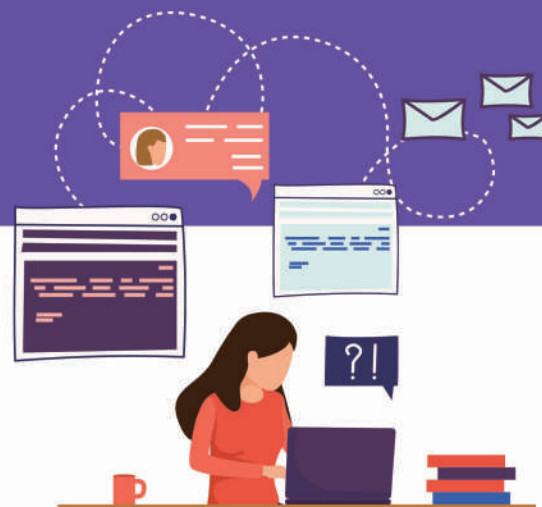
- You enjoy trying to help people solve their problems
- You like to analyze things (problems/situations)
- You are interested in working on the computer

## SCHOLARSHIPS

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

## LOANS

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



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)

## ENTRY 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](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*

## 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
8. Madras Institute of Technology

Information on the institute rankings can be found at -  
[www.nirfindia.org/2022/Ranking.html](http://www.nirfindia.org/2022/Ranking.html)

### ONLINE COURSES

1. Certified Ethical Hacker by Udemy
2. Cisco Certified Network Professional
3. Cisco Certified Information Security Expert
4. Cybersecurity Courses & Certifications [2023] | Coursera

## EXPECTED GROWTH PATH



Cyber Security Specialist → Cyber Security Analyst → Cyber Security Manager  
**OR**  
Cyber Crime Analyst → Cyber Security Consultant → Cyber Security Manager



## 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>

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

Search keywords...



*cybersecurity specialist, network security specialist, web security specialist*