**National Career Service**

सही अवसर, सही समय

**Right Opportunities, Right Time**

# CAREER IN CYBER SECURITY



CYBER SECURITY

**Government of India,
Ministry of Labour and Employment, Directorate General of Employment,
National Institute of Career Service,
Noida , Uttar Pradesh.**

# CAREER IN CYBER SECURITY

## INTRODUCTION

Digitalization has influenced our day to day life, in other words human life are now totally dependent on the Digital world, The DIGITAL INDIA programme launched by Government of India has revolutionised the use of Digital landscape into the public services and made available to each and every citizen of the country. The introduction of the cutting-edge technology easy availability of internet and development of robust Information Technology infrastructure has added to the rapid growth of this Sector. The Government of India, through its Digital India mission has envisaged the need for making India a role model in the IT world thereby making the life its citizen easier through Digitization and paperless works which are both accountable and faster in delivery. But with the advantage and usefulness of the Digitization and faster delivery of jobs has brought about a group of people who are taking the advantage of the technology for malicious activity and commit crimes, classified as Cyber Crime or Cyber offences

The Cyber Criminals infringe upon the CIA trait – I.e. Confidentiality, Integrity and Availability. To prevent such type of attacks the concept of Cyber Security has put in place. Cybersecurity is the practice of securing and protecting computer systems, networks, servers, and data from malicious digital attacks such as accessing, tempering, or destroying sensitive information, interrupting business processes, or extorting money from users. Cyber security professionals are in high demand and enterprises are ready to pay very high salary and provide the best of incentives to the best suited candidates. There is huge demand for the cyber security professional at all levels. The insufficiencies of professional s increases exponentially at the leadership level as only a handful of professional with know how to mitigate and manage the group of Cyber experts are available. With the threat to the Digital world is constantly evolving and new player are devising new techniques to commit cyber Crime, The Business organisation and the Government Sectors offers a wide range of opportunities for the Cyber Security Experts.

## COMPETENCY REQUIREMENT

An entry to the Cyber Security is possible for a simple Graduate with basic k knowledge of IT but Software Engineers have preferences. Person should have skill in Cybersecurity field and knowledge of Networking and coding is desirable though not essential.

## JOB POFILE OF CYBER SECURITY

| Job | Skill Set Required | Basic qualification | Package / Salary |
|---|---|---|---|
| Security Analyst | * Strong understanding of networking and operating systems * Proficiency in security tools for threat detection and analysis * Excellent analytical and problem-solving skills * Communication and collaboration skills for working with IT teams | Bachelor's degree in computer science, information technology, or a related field | Average salary for a Cyber Security Analyst in India is 6.4 Lakhs per year (₹53.2k per month). |
| Penetration Tester (Pen Tester) | * In-depth knowledge of hacking techniques and penetration testing methodologies * Experience with scripting languages for automating tasks * Excellent understanding of network security and vulnerabilities | Bachelor's or master's degree in cybersecurity, computer science, IT, or a related field | Average salary for a Penetration Tester in India is 8.6 Lakhs per year (₹71.5k per month) |
| Security Engineer | *Experience with security tools for vulnerability management, firewalls, and intrusion detection/prevention * Strong understanding of security best practices and compliance standards . | Bachelor's degree in computer science, information technology or cybersecurity (preferred) | Average salary for a Cyber Security Engineer in India is 8.4 Lakhs per year (₹70.1k per month) |
| Security Architect | * Extensive experience in IT security design and implementation * Deep understanding of security frameworks and architectures * Leadership skills and experience managing security teams * | Bachelor's degree in computer science, information technology (IT), or a similar subject. You must pass your 10+2 with PCM subjects. | Security Architect salary in India ranges between ₹ 18.5 Lakhs to ₹ 40.0 Lakhs with an average annual salary of ₹ 24.7 Lakhs |
| Senior Consultant-Cybersecurity | Skills Required: Extensive experience in IT security design and implementation * Malware Analysis * Threat Intellegence* Threat hunting * Analysis of PE and Non- PE files for detecting malacious files etc. | B.E/B. Tech in Computer Science/Electronics & Communication/Telecommunication or MCA. | Senior Cyber Security Consultant salary in India ranges between ₹ 6.5 Lakhs to ₹ 32.0 Lakhs with an average annual salary of ₹ 14.1 Lakhs. |

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|---|---|---|---|
| Security Engineer, Trust and safety | * Code level security auditing, or Android system security * Handon Experience on IDA Pro and OllyDbg | Master's degree in computer science * 5 year experience in Software Reverse Engineering | Salary ranges from ₹ 2.2 Lakhs to ₹ 8.1 Lakhs per annum |
| SOC ( Security Operations Centre) Engineer | * * DLP, Security Information and Event Management (SIEM) | BE/ B Tech/ Master degree in Computer Science or Engineering | Average starting Salary for SOC Analyst in India is around ₹3.0 Lakhs per year (₹25.0k per month) |

## COURSES in DEMANDING

| University Name | Course Name | Website |
|---|---|---|
| IIT Delhi | M.Tech. in IS (Information Security) | https://home.iitd.ac.in/ |
| (NIELIT) | PG D in IS and Cloud Computing | https://www.nielit.gov.in |
| NITK | M.Tech. in IS | https://www.nitk.ac.in/ |
| BITS Pilani (WILP) | M.Sc. Cyber Security (Online) | https://bits-pilani-wilp.ac.in/ |
| Amity University | M.Sc. Cyber Security (Online) | https://amityonline.com/ |
| Jain University | M.Tech. in Cyber Security | https://www.jainuniversity.ac.in |
| IIIT Bangalore | M.Tech. in IS | https://www.iiitb.ac.in/ |
| Anna University | M.E. in IS | https://www.annauniv.edu |
| SRM | B.Tech. in Cyber Security | https://www.srmist.edu.in/ |

## FEW INSTITUTE OFFERING COURSES ON CYBER SECURITIES

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❖ National Career Service Centre for SC/ST(CGC), MOLE, GOI,

❖ Calicut University – Calicut

❖ VIT University (Tamil Nadu, Vellore)

❖ National Institute of Technology, Kurukshetra (Haryana, Kurukshetra)

❖ Karunya Institute of Technology and Sciences (KITS) – Coimbatore

❖ The Edureka Cybersecurity Certification Course

❖ Simplilearn Cybersecurity Certification Course

❖ Coursera : Cybersecurity Certification Course

❖ Udemy : Cybersecurity Certification Course

### INTERNATIONAL CERTIFICATION

Few International and Valid Certification course are required to fit into the profile of a Cyber Security Arena.

CISA: Certified Information System Auditor

MCSE: Microsoft Certified System Engineer

CCSP: Cisco Certified Security Professional

CISM : Certified information security  Management.
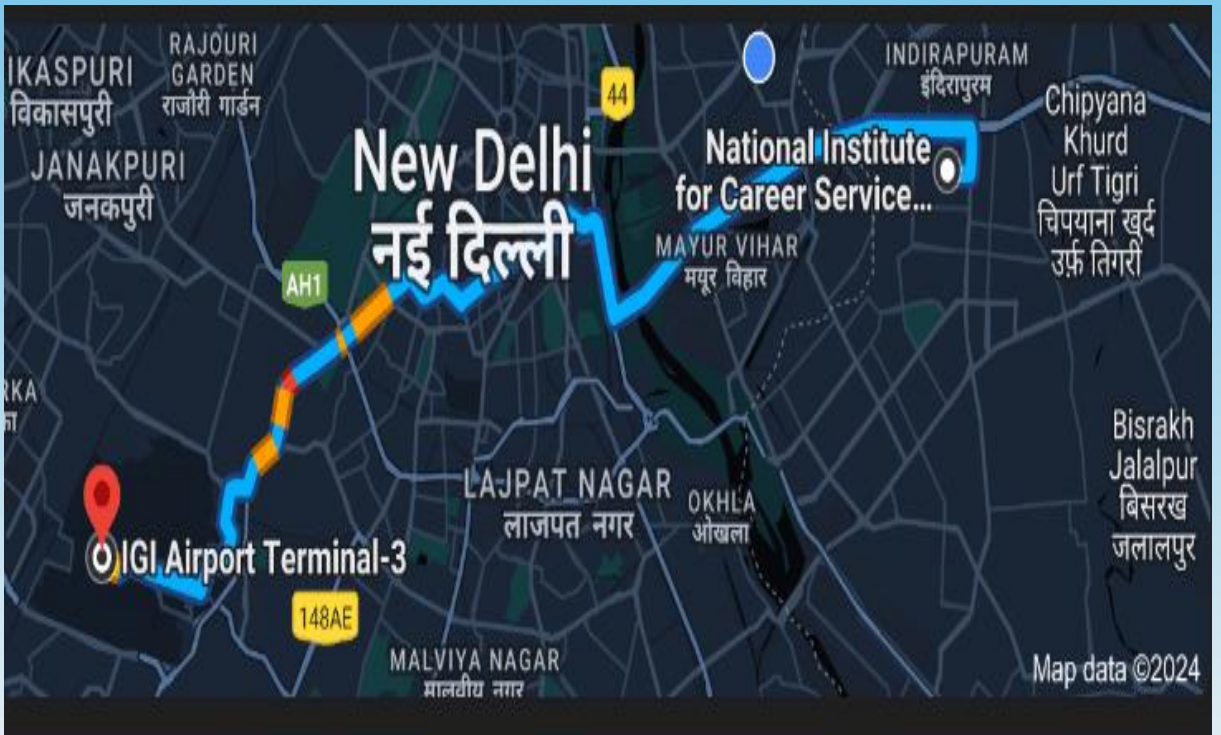
## MODEL CAREER CENTRE:

The National Institute for Career Service (NICS) erstwhile Central Institute for Research and Training in Employment Service (CIRTES) was set up in October 1964 under Directorate General of Employment (DGE), M/o Labour & Employment for imparting Research & Training in Employment Services, NICS acts as a nodal institute for capacity building and is responsible for imparting training to all stakeholders of NCS project like Employer, Job Seeker, Training Provider, College Students/ Counsellors/ Placement Organisation/Govt. Organisation etc. NICS imparts professional in-service training for officers of National Employment Services working at Central & State Govt. NICS is also plays major role in conceptualization of the Young Professional Scheme of M/o Labour and Employment and co-ordinates the activities of Model Career Centres established across country under NCS project.

## SERVICES OFFERED BY NICS , NOIDA

❖ <u>AWARENESS ABOUT NCS POSTAL</u>: Organise awareness program about NCS Scheme among various Stakeholders in online or offline mode.

❖ <u>REGISTRATION</u>: Jobseekers and Employer registration on NCS portal

❖ <u>EMPLOYMENT SERVICES</u>: Conducting Job-fairs and placement drives regularly for the benefit of both job-seekers and employers.

❖ <u>CAREER TALKS/ WEBNAIRS OR TRENDING JOB ROLES</u>: Organise career talks/webinars in various schools, ITIs, colleges for the benefit of students. Also organise Career talks on emerging trends with industry experts in online mode.

❖ <u>CAREER COUNSELLING SESSIONS</u>: Organise career counselling sessions for the jobseekers.

❖ <u>SKILL GAP /EMPLOYABILITY TRAINING</u>: Conducting Free Skill Gap /Employability training for enhancing the employability of Job-seekers as per latest Job roles and industry patterns.

## HOW TO VISIT NICS, NOIDA



## TO CONTACT

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