National Institute of Electronics and Information Technology, Delhi

Centre 2nd Floor, Parsvnath Metro Mall,

Inderlok Metro Station, Inderlok, Delhi-110035

Eligibility Criteria against the Advertisement vide no. 07/247/2021/NDL/FM for empanelment of IT Resource Persons to be deployed in specific Govt. Department in Delhi/NCR/Kolkata/ Secunderabad/Meerut or other States on contract basis

S. No.	Name of The Post	Essential Qualification	Consolidated Monthly Salary (Rs.)	Experience (after availing essential qualification) as on - 09-01-2022	Job Profile/ Skill Set/ Locations (probably)
1	Assistant Programmer 'B' – (C) (20)	B.E / B. Tech/ ME/M. Tech in Computer Science & Engineering or Computer Engineering or Computer Technology or Information Technology or Computer Science & Information Technology or Computer Applications, or MCA or B.Sc (Computer Science Engg – 4 Year degree course). Relevant Degree from an AICTE / UGC recognized institute, or equivalent qualification as per Govt. of India rules	22,154/-	1+ year	J2EE/ JAVA/ Oracle/ SQL/ PLSQL/ NET/HTML5/ Java Script/ Ajax/ Jquery/ AngularJs/ Json/ CSS/ PL/ SQL/ Android Studio/ Eclipse/ Netbeans/ Jboss Developer Studio/ STS/ Java Script/ MySql/ AngularJs or above/ JEE7/ GIT/ Bootstrap/ HTML/ Web Service/ Maven/ Fortran/ C/ C++/ OVMS/ HP UX/ DCL Scripting/ UI Designer/ Android Studio/ Swift/ PostgreSQL/ Delhi/ NCR

2	Assistant Programmer 'B'-KOL-C(5)	B.E / B. Tech/ ME/M Tech in Computer Science & Engineering or Computer Engineering or Computer Technology or Information Technology or Computer Science & Information Technology or Computer Applications, or MCA or B.Sc (Computer Science Engg – 4 Year degree course). Relevant Degree from an AICTE / UGC recognized institute, or equivalent qualification as per Govt. of India rules	22,154/	1+ year	Management of Large Network, Automated devices Management, NMS etc./ Development knowledge with application in J2ee, Spring Boot, Web Services, Angular, Reporting Tools etc with knowledge of working in Sybase/Oracle/My SQL. Kolkata
3	Assistant Programmer 'B'-SEC-C(02)	B.E / B. Tech/ ME/M Tech in Computer Science & Engineering or Computer Engineering or Computer Technology or Information Technology or Computer Science & Information Technology or Computer Applications, or MCA or B.Sc (Computer Science Engg – 4 Year degree course). Relevant Degree from an AICTE / UGC recognized institute, or equivalent qualification as per Govt. of India rules	22,154/	1+ year	HTML5/ J2EE/JAVA/ Java Script/ Ajax/ Jquery/ Angular/ Json/ CSS. Secunderabad
4	Assistant Network Engineer 'B' (C) (2)	B.E/ B.Tech/ME/M.Tech in Electronics or Electronics & Communication, Electrical & Electronics & Telecommunication. Relevant Degree from a recognized institute, Or equivalent qualification as per Govt. of India rules.	22,154/	1+Years	IEEE 802.3e (x)h (100/1000 Base TX/FX), IEEE802.1e (1000Base SX/LX), IEE 802.1 a/b/g, Wi-Fi based LAN-HP routing protocols, RIP/ OSPF/BGP/IPSec/SSL based network security devices/VPN/ Perimeter Network security devices viz. Firewall/ IPS/ UTM/ SNMP based Network Management System/Wide area networks, E1/ E3/ Channelized E1/STM1/MPLS. Delhi/NCR

| 5 | Sr. Programmer-(C) 065 | B.E / B. Tech/ ME/M Tech in Computer Science & Engineering or Computer Engineering or Computer Technology or Information Technology or Computers Science & Information Technology or Computer Application, or MCA or B. Sc (Computer Science Engg – 4 Year degree course)

Relevant Degree from an AICTE / UGC recognized institute, or equivalent qualification as per Govt. of India rules | 40,810/- | 34 years | JAVA/ JSP/ Servlet/ Java Beans/AJAX/ XML/JDBC and exposure to IDEs like Rational Application Developer, HTML, CSS/ ORACLE/ PL/ SQL/PostgreSQL/ AVA Script /jquery/JPA/Struts / Angular js/Java/Angular 4 or above /hosss/WebSphere/ Weblogic Application/Server/Spring/HTML5/UI Designer/Android Studio/VB5/IBERNATE/jquery/JEE7/.GIT,. Bootstrap,web service, Maven, Fortran, C, C++, OVMS, HP UX, DCL, Scripting, System Admin, J2EE Sr. Developer, spring Boot/ Eclipse/ Netbeans/ jboss developer /Studio/ STS/ NET/ Android/ webSphere/ DBA / Red HAT LINUX/ GIS/ Geoinfomatics/ Remote Sensing/ Cartography/ ArcGIS / QGIS/ Geoserver/ OpenLayers/ Python with Django framework/ Swift/ UI Designer, Core Java and SQL, Technical Writing, Project Management Tool/ Front end technologies Servlet/J2EE Advance Java/ SQL in Oracle 11g/ 12g/ SQL Developer, J2EE Spring framework/ with Hibernate knowledge of Javascript jee7, GR, Sebserveices, MAVEN, Jquery

Delhi/ NCR |
| 6 | Sr. Programmer-KOL-(C) (03) | B.E / B. Tech/ ME/M Tech in Computer Science & Engineering or Computer | 40,810/- | 34 years | BE. B.Tech/MCA etc with software development |

		Engineering or Computer Technology or Information Technology or Computer Engineering or Computer Science & Information Technology or Computer Applications, or MCA or B.Sc (Computer Science Engg – 4 Year degree course). Relevant Degree from an AICTE / UGC recognized institute, or equivalent qualification as per Govt. of India rules			experience in Web-application in J2ee,Spring Boot, Web Services etc with experience of working in Oracle/My SQL. BE/BTech in CS/ECE with experience in Face Collection Devices application in java/C++, Device driver dealing with knowledge in digital omni etc. BE, B. Tech, MCA with software development experience in Web application using J2ee or Experience mobile Application using android / IOS etc with a knowledge of RDBMS **Kolkata**
7	**Programmer –(C) (04)**	B.E / B. Tech/ ME/M. Tech in Computer Science & Engineering or Computer Engineering or Computer Technology or Information Technology or Computer Science & Information Technology or Computer Applications or MCA or B.Sc (Computer Science Engg – 4 Year degree course). Relevant Degree from an AICTE / UGC recognized institute, or equivalent qualification as per Govt. of India rules	34980/-	2+ years	DBA/ ORACLE/ RED HAT/ Linux/ J2EE/ JAVA **Delhi/ NCR**
8	**Network Specialists-(C) (02)**	B.E / B. Tech/ ME/M. Tech in Electronics or Electronics & Communication, Electrical & Electronics & Telecommunication. Relevant Degree from an AICTE / UGC recognized institute, or equivalent qualification as per Govt of India rules	40,810/-	3+ years	IEEE 802.3arah (100/1000-Base Tx/Fx), IEEE802.3z (1000BaseSX/LX), IEEE 802.1 (QVlg, Wi-Fi based LANs/IP routing protocols, RIP/ OSPF/ BGP/ IPSec/ SSL based network security devices/ VPN/ Parameters Network security devices via Firewall /IPS /UTM/SNMP based Network Management System/Wide area networks, E1/ E3/ Channelized E1/ STM1/ MPLS **Delhi/ NCR**

| 9 | Network Specialists - KOL-(C) (02) | B.E / B. Tech/ME/M Tech in Electronics & Electronics & Communication, Electrical & Electronics & Telecommunication.

Relevant Degree from an AICTE / UGC recognized institute, or equivalent qualification as per Govt. of India rules | 40,810/ | 3+ years | IEEE 802.3/a/ab (10//1000 Base Tx/Fx), IEEE802.3z (1000BaseSX/LX), IEEE 802.1 a/b/g, Wi-Fi based LANs/IP routing protocols, RIP/ OSPF/ BGP/ IPSec/ SSL based network security devices/ VPN/ Perimeter Network security devices viz Firewall /IPS /UTM/SNMP based Network Management System/Wide area networks, E1/ E3/ Channelized E1/ STM1/ MPLS MPLS ETC.

Knowledge of devices engaged in Automatic Fare Collection System like Automatic Gates, Ticket Vending Machines etc would be preferred. |
| 10 | System Analyst - (C) (12) | B.E / B. Tech/ ME/M Tech in Computer Science & Engineering or Computer Engineering or Computer Technology or Information Technology or Computer Science & Information Technology or Computer Applications, or MCA or B.Sc (Computer Science Engg – 4 Year degree course).

Relevant Degree from an AICTE / UGC recognized institute, or equivalent qualification as per Govt. of India rules | 52,470/ | 5+ years | **Kolkata**
Eclipse/ Netbeans/ JBoss Developer Studio/ STS/ HTML5/ J2EE/ JAVA/ Hibernate/ Jquery/ Java Script/ Ajax/ Jquery/ Angular Js/ Json/ CSS/ JBoss/ WebSphere/ WebLogic Application Server/ PMP Certification/ SPRING MVC/Solution Architect/ Spring/ Spring Boot/ PL/ SQL/ Struts/ ORACLE

Delhi/ NCR |

11	Programmer Assistant 'A' - (P) (2)	Bachelor's Degree in Computer Science/Computer Applications/ IT/Electronics & communication Or Bachelor's degree in Science, Mathematics, Statistics, Economics, Commerce, Operations Research with one year 'A' level of DOEACC/ PGDCA Relevant Degree from an AICTE / UGC recognized institute, or equal qualification as per Govt of India rules	21,420/	Nil	Development and Management of software system and Security aspect of application. Meerut
12	Sr. Consultant - CE (5)	Bachelor's Degree in Technology or Engineering or equivalent in the field of Computer Science / Information Technology / Cyber Security / Electronics and Communications / MCA Degree, with at least 60% marks in aggregate OR M.Tech in the field of Computer Science / Information Technology / Cyber Security / Electronics and Communications / MCA Degree, with at least 60% marks in aggregate	Rs. 90,000/ to 1,25,000/-	Minimum 10 years experience in the required domain field in area of Cyber Security as per detailed responsibilities and tasks defined in para-2 (below) Desirable Any certificate related to Cyber security CEH/CISSP/CISA/ OSCP or Diploma in Cyber security	Age Limit: upto 40 years For : Delhi/NCR
13	Consultant – CE (8)	Bachelor's Degree in Technology or Engineering or equivalent in the field of Computer Science / Information Technology / Cyber Security / Electronics and Communications / MCA Degree, with at least 60% marks in aggregate OR M.Tech in the field of Computer Science / Information Technology / Cyber Security / Electronics and Communications / MCA Degree, with at least 60% marks in aggregate	60,000/- to 90,000/	Minimum 5 years experience in the required domain field in area of Cyber Security as per detailed responsibilities and tasks defined in para-2 (below) Desirable Any certificate related to Cyber security CEH/CISSP/CISA/ OSCP or Diploma in Cyber security	Age Limit: upto 40 years For : Delhi/NCR

Note: The number of vacancies are tentative and can vary at any point of time as per office requirement.

Para 2- Detailed Responsibilities and Tasks

1. Sr. Consultant (CE)

(a) Senior Analyst

- Acting as resource person for handling critical incidents and performing analytical tasks in the area of malware/artifact analysis, cyber forensics, threat hunting, breach investigation, operationalization of decoy systems, log analysis, correlation of incidents, analytics
- Data Scientists including operationalization of big data analytics
- Identification of new scientific techniques in incident analysis
- Tracking cyber threats, vulnerabilities reported in various systems/platforms/devices and preparation of vulnerabilities notes and advisories for publishing on website of CERT-In
- Tracking of malware threats and preparation of virus alerts for publishing on website of CERT-In
- Tracking of emerging threats, wider exploitation of vulnerabilities and new cyber attacks and preparation of current activity for publishing on website of CERT-In
- Finding new vulnerabilities in s/w widely used in constituency, Coordination for vulnerability remediation with stakeholders
- Analysis and taking actions of reported vulnerabilities in systems/websites/networks and processors of organisations in various sectors
- Exploit writing and testing, finding and evaluating new tools/solutions in open source for using and commercial domain for procurement, creating testbeds
- Coordination for tracking of incidents such as website intrusions/defacements, Spam, vulnerable and open services such as open DNS, open NTP, exposed databases etc and coordinating incident response with shift teams
- Scientific ways of log analysis, incident attribution, trends in IP masquerading (proxy, vpn etc.), Review of analysis reports, preparing trends reports
- Preparation of guidelines and best practices to prevent recurrence of incidents and enhancing security posture of organisations in various sectors
- To make repository of publicly released incident information in specific sectors such as finance, telecom, power, transport, defence etc for keeping abreast of the current threats and achieve readiness to study and implement early responses
- Collection and analysis of relevant information, reports and data and maintain to help respond to inquiries received from stakeholders and to assist with reviews of demonstrations such as security architecture designs and security operation procedures
- Providing training to constituency on various areas of cyber security
- Participating in International cyber drills
- Conducting cyber drills(on-premises national level, sectoral /state level and organization level)
- Handling of activities related to bilateral / multilateral agreements (MoUs) on cooperation in the area of cyber security and other coordination related tasks.

(b) Cyber security audit and VAPT

- Web Application and mobile application auditing (including Android, and iOS) vulnerability assessments, Compliance audits, Code Reviews
- Source Code Security Audit, inspect the source code for security weaknesses
- Remote Vulnerability assessment and Security Testing of Web applications
- Static Source code Vulnerability Audit and Security Testing of websites code
- Review of authentication, authorization, session and communication mechanisms
- Research and Development of solution to mitigate Application level attacks.
- Review of third-party libraries
- Security validation of cryptographic functions and routines
- Evaluation of tools/solutions for Vulnerability Assessment and Penetration Testing

(c) Analyst /developer/auditor (expert areas)

- Tracking of cyber threat and vulnerabilities analysis
- Vulnerability analysis, Support for Exploit testing, writing scripts, Advisory preparation
- Preparation of guidelines, case studies and white papers
- Providing assistance to senior analysts for tracking of incidents such as website intrusion/defacements, Spam, vulnerable and open services such as open DNS, open NTP, exposed databases etc and coordinating incident response with shift teams
- Determination of operational and implementation feasibility by evaluating problem definition, requirement analysis, solution design development of the proposed solutions.
- Preparation of specifications, designs, flowcharts, layouts, diagrams of the required application/software
- Preparation and installation of solutions by determining and designing system specifications, standards, and programming.
- Providing information by collecting, analyzing, and summarizing development and service issues.
- Providing expert guidance to external/internal developers/requirements
- Improving overall development system by conducting systems analysis, recommending changes in policies and procedures, recommending platforms and products, testing and approving products
- Development of scripts/programs according to the specific requirement different internal teams such as Operations/malware analysis/ Infrastructure management
- Leading teams for development of Scripts for aiding in Malware analysis and forensics.
- Web application and mobile application auditing
- Source code review
- Evaluation of tools/solutions for VAPT
- ISMS audits
- Auditing of Industrial Control Systems

2. Consultant (CE)

(a) Cyber security audit and VAPT

- Web Application and mobile application auditing (including Android, and iOS) vulnerability assessments, Compliance audits, Code Reviews
- Source Code Security Audit: inspect the source code for security weaknesses
- Remote Vulnerability assessment and Security Testing of Web applications
- Static Source code Vulnerability Audit and Security Testing of websites code
- Review of authentication, authorization, session and communication mechanisms
- Research and Development of solution to mitigate Application level attacks:
- Review of third party libraries
- Security validation of cryptographic functions and routines
- Evaluation of tools/solutions for Vulnerability Assessment and Penetration Testing

(b) Analyst /developer/auditor (expert areas)

- Tracking of cyber threat and vulnerabilities analysis

- Vulnerability analysis, Support for Exploit testing, writing scripts, Advisory preparation
- Preparation of guidelines, case studies and white papers
- Providing assurance to senior analysists for tracking of incidents such as website intrusions/defacements, Spam, vulnerable and open services such as open DNS, open NTP, exposed databases etc and conducting incident response with shift teams
- Determination of operational and implementation feasibility by evaluating problem definition, requirement and yse, solution design development of the proposed solutions.
- Preparation of specifications, designs, flowcharts, layouts, diagrams of the required application/software.
- Preparation and installation of solutions by determining and designing system specifications, standards, and programming
- Providing information by collecting, analyzing, and summarizing development and service issues.
- Providing expert guidance to external/internal developers/programmers
- Improving overall development efforts by conducting systems analysis, recommending changes in policies and procedures, recommending platforms and products, testing and approving products.
- Development of scripts/programs according to the specific requirement different internal teams such as Operations/malware analysis/ Infrastructure management
- Leading teams for development of Scripts for aiding in Malware analysis and forensics
- Web application and mobile application auditing
- Source code review
- Evaluation of tools/solutions for VAPT
- ISMS audits
- Auditing of Industrial Control Systems

INDIA Domain Password Set Method

INDIA Domain :

The domain that is used in TCS machines within TCS network in TCS offices. Every time to login into the TCS machines the username (your employee ID) and a password is required. That password will be set by resetting it on ultimatix through password management and will be used henceforth.

Setting the password for INDIA domain is necessary for trainees under SBWS mode for the below reasons:

1. The password will be used as a password for accessing mails through Exchange. Mail and O365_Mail on https://myapp.tcs.com (link to access mails outside TCS network)
2. The associates who will be undergoing 15 days training (XP Batches) will be provided VDI access and to login into VDI the password for INDIA domain will be required.

- **STEPS TO SET THE PASSWORD FOR INDIA DOMAIN**
  Note: The default password for INDIA domain is **ChangePwd@DOB** in DDMMYYYY format.
 Here DOB stands for your date of birth.
  For e.g. an employee with employee ID: 123456 has DOB as 30/07/2020 so the default password for that employee will be ChangePwd@30072020
  Steps
  1. Log in to Ultimatix with Authcode click on **Password management** option (present at top right corner of the Home page) as shown below:

2. Go to **Domain Account** (APAC, EMEA, INDIA, NOAM, SOAM, Globe, Digitate)
   Click on **Change Password/Unlock Account**
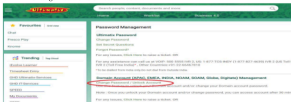
3. Then **Enter** below details on the screen that appears after the above steps:
   Date of Joining (ddmmyyyy) : <your date of joining>
   Ultimatix Password : <Use the Ultimatix password that you have set for your ultimatix portal>
   Ultimatix Secret Question : <Any of the 5 secret question set by you will come>
   Your Secret Answer: <Enter the answer to the secret question that will come>
   Domain: Select "INDIA" as domain from the drop down
   Click **Submit.**

4. Click on the **Password Policy** to check on the type of password to be set.
   Then according to **Password Policy** set the new password for INDIA Domain,
   and take a note of it.

   **Please note you have to set the new password irrespective of the Lockout
   Status i.e. even if the Lockout status will be "Not available" you have to set
   the new password.**

   Select Option **"Unlock Account and Change Password"**

   Set New password and confirm password.

   Click **Submit.**

5. If the password is set successfully the screen with message of password has been
   changed successfully will come. It takes 15-20 minutes for the changes to get
   captured.

6. Close the window.

7. **The password for INDIA domain will change from your default password
   (ChangePwd@DOB in DDMMYYYY) to your newly set password. And
   going forward wherever you will be asked to enter the INDIA domain
   password you have to enter the new password that you have set after setting
   the password. Hence take a note of this password.**