Job Description

Project Name: Collaborative Research Program

Post Code: 76

Location: New Delhi

Roles and Responsibilities:
a) Create a project Plan, coordinating with all stakeholders
b) Monitor the daily/weekly progress to generate project reports
c) Monitor, track, and ensure requisite controls across various critical & non-critical activities; Develop a comprehensive program Plan for each of the Product/solution
d) Ensure periodic review, along with stakeholders, of each program, timely closure/ compliances by each stakeholder
e) Ensure documentations, reports from planning to delivery
f) Coordinated efforts among stakeholders, and ensure monitoring of every mile-stone, its completion, reporting, invoice and coordination with finance/ DOT USOF etc

Deliverables

a) Work closely with DOT/Project sponsor, and all stake holders from C-DOT and applicants/consortium (academia, industry, start-ups, institutes), ensuring timely closure of process steps like evaluation, meetings, proposals and compliances for approvals to happen as per defined time frame
b) Creating project plans, scope/ responsibility matrix, deliverables, monitor requisite resources deployment, and timely flags
c) To identify risks and opportunities across multiple programs and present an overall Program progress metrics, with an analysis & suggested plans to overcome program risks
d) Project's monitoring & controls and proactive redressal.

Minimum Qualifications:

• Min 65% in (10th, 12th, and BE/B.Tech in Electronics & Telecommunication, or Computer Science) from a recognised university. Candidates with MBA and having PMP certification will be preferred

Eligibility Criteria:

• 0-3 years of professional work experience post qualification.

Job Description

Project Name: Marketing and Corporate Communication

Post Code: 50

No. of Post(s): 08

Location: New Delhi/Bangalore

Roles and Responsibilities:

- Customer engagements
- Preparation of Project proposals, business presentations etc
- Organize discussions and hold consultative deliberations with internal and external stakeholders, as and when required, to meet the customers' requirements.
- To represent C-DOT in various exhibitions to demonstrate & market / promote C- DOT products in exhibitions

Skills and Abilities:

- Telecom & IT technologies' awareness.
- Good knowledge and understanding of products and telecom technologies in general.
- Good communication, presentation, writing, organizing, planning, and creative kills, as required to draft several documents, follow-up mails, technical bids pertaining to business leads.
- Knowledge of tools & techniques - office automation tools, ERP /& MIS, etc.
- Soft skills – Good communication & writing skill,
- People skill – soft-spoken, pleasing, disciplined, time-sensitive, capability to handle ambiguity, etc.

Minimum Qualifications:

☐Min 65% in (10th, 12^{th,} BE/B.Tech in Electronics & Communication Engineering / Computer Science or equivalent degree from a recognized college/university)

Eligibility Criteria:

☐0-3 years of professional work experience post qualification.

Job Description

Project Name: PMG

Post Code: 51

No. of Post(s): 02

Location: New Delhi

Roles and Responsibilities:

- Annual Plan & Budget preparation – strategic alignment of resources (financial, manpower planning) with the direction, as determined for the business and release of Annual Business Plan (ABP).
- Preparation of various project progress report in different required formats
- Audit co-ordination – with C& AG auditor, statutory auditor, etc. for smooth carrying of project audit, involving replies to various queries raised, settlement of pending queries / paras, replies to inspection report, etc.
- Parliamentary affairs – Replies to various queries related to projects under implementation, etc.

Skills and Abilities:

- Telecom & IT technologies' awareness.
- Knowledge of program management – project planning & control, cost /schedulecontrol system, etc.
- Knowledge of tools & techniques - estimation, data analytics, office automationtools, ERP /& MIS, etc.
- Soft skills – Good communication & writing skill,
- People skill – soft-spoken, pleasing, disciplined, time-sensitive, capability tohandle ambiguity, etc.
- Hands-on development experience in Java, enterprise Java applications; Oracle PostgreSQL preferred.

Minimum Qualifications:

☐Min 65% in (10th, 12th, BE/B.Tech in Electronics & Communication Engineering / Computer Science or equivalent degree from a recognized college/university)

Eligibility Criteria:

☐0-3 years of professional work experience post qualification.

Job Description

Project Name: Lab Infrastructure Support

Post Code: 52

No. of Post(s): 03

Location: New Delhi

Roles and Responsibilities:

To meet the lab support requirements of lab users by:

- Ensuring availability of necessary hardware and software and other lab equipment
- Addressing any issues relating IP Networking, Faulty cards, Data configurations, Software versions etc.
- Maintaining and provisioning testing equipment for the users
- DC Power Plants/battery Banks Maintenance, Power provisioning support in Labs

Skills and Abilities:

- Basic Knowledge of IP Networking and Cabling, Optical connectivity
- Knowledge of Technologies like 4G, 5G, eNodeB/gNodeB is desirable
- Good Communication Skills

Minimum Qualifications:

- Min 65% in (10th, 12th, B.E. / B. Tech. in Electronics & Communication Engineeringor equivalent degree from a recognized college/university)

Eligibility Criteria:

- 0-3 years of professional work experience post qualification. Preference will be given to candidates having fixed and mobile (2G/3G/4G) telecom equipment deployment field experience.

Job Description

Project Name: a) 4G/5G testing/POC/deployment in Railways
b) 4G/5G deployment in BSNL

Post code: 15

No. of Post(s): 15

Location: New Delhi/Kolkata

Roles and Responsibilities:

1. Installation, commissioning and day to day activities to be performed atoffice and various sites PAN India
2. System integration and testing in C-DOT lab and at various PAN Indiasites.
3. Interfacing with various government and non-government customers for resolution of issues coming in their network

Skills and Abilities:

1. Candidate shall have experience of installation, deployment and support of different elements of 2G/3G/4G network
2. Candidate shall have experience of working on Network management and troubleshooting.
3. Hands-on experience of working on UNIX/Linux environment, shell scripting will be an additional advantage
4. Candidate shall have experience of working on Cloud environment.
5. Knowledge of Architecture of EPC & IMS as well as different Call flows in 4G/Volte Network
6. Good grasp on different Debugging Tools like Wireshark, Tcpdump,Tethereal
7. Knowledge of VOIP, SIP, Megaco, Diameter, MAP, GTP etc.
8. Knowledge of Networking Protocols i.e. OSPF, BGP, ACL, MPLS etc.
9. Comfortable with frequent Travelling/Field Visit at Customer sitesGoodverbal and oral communication skill

Minimum Qualifications:

☐ Min 65% in (10th, 12th ,B.E/B.Tech in CSE/IT/ECE or equivalent degree from arecognized college/university.

Eligibility Criteria:

☐0-3 years of professional work experience post qualification. Preference will be given toGATE qualified candidates.

Job Description

Project Name: Switch and Router support- R34 (NGN)

Post code: 17

No. of Post(s): 2

Location: New Delhi

Roles and Responsibilities:

• Managing Router lab and associated infrastructure

• Field support activities

Skills and Abilities:

- Knowledge of computer networking.
- CCNA certification/training preferable

Minimum Qualifications:

☐ Min 65% in (10th, 12th , B.E/B.Tech in ECE from a recognized college/university).

Eligibility Criteria:

☐ 0-3 years of professional work experience post qualification. Preference will be given toGATE qualified candidates.

Job Description

Project Name: 4G LTE IMS CONVERGED CORE COMMERCIALIZATION IN BSNL NETWORK - R42

Post code: 27

No. of Post(s):2

Location: Bengaluru

Roles and Responsibilities:

- Development of packet/message processing application
- Testing and debugging

Skills and Abilities:

- C Programming
- Knowledge of Linux, shell scripting
- Knowledge of networking IPC, sockets
- Knowledge of compilation and debugging tools

Minimum Qualifications:

☐Min 65% in (10th, 12th ,B.E/B.Tech in Computer Science from a recognized college/university).

Eligibility Criteria:

☐0-3 years of professional work experience post qualification. Preference will be given toGATE qualified candidates.

Job Description

Project Name: DEVELOPMENT OF 5G STANDALONE (SA) CORE - G05 code

Post code: 28

No. of Post(s): 2

Location: Bengaluru

Roles and Responsibilities:

- Platform s/w porting of embedded systems
- Tester s/w development and testing.
- Integration testing with h/w

Skills and Abilities:

- Knowledge of Embedded systems (Bootloader, OS etc.) with anyprior testing experience (if possible)
- C programming
- Knowledge of Linux, shell-scripting
- Knowledge of compilation and debugging tools

Minimum Qualifications:

☐ Min 65% in (10th, 12th ,B.E/B.Tech in Computer Science from a recognized college/university).

Eligibility Criteria:

☐ 0-3 years of professional work experience post qualification. Preference will be given toGATE qualified candidates.

Job Description

Project Name: 4G Radio Access Network

Post code: 39

No. of Post(s): 4

Location: Bengaluru

Roles and Responsibilities:

- Development of EMS Features
- Handling Integration activities
- Automation of test plans
- Migration of 4G EMS to 5G complaint EMS (Element Management System)
- Testing and Trials

Skills and Abilities:

• Knowledge of Wireless Technologies, Computer Networking, Data Networking, Signal Processing
• Wireless network system architecture and subsystem design
• Testing and debugging tools
• Configuration Management, Scripting, Build and Development environment
• Able to work with Product integration and testing like functional testing, load testing, Stability testing, Regression testing etc
• Comfortable with organization processes
• C/C++ programming skills along with scripting.
• Unix Network Programming
• Data Structures and Algorithms
• JAVA Language
• Web Developement (JSP,JavaScript,AJAX, HTML,Application Server, Web Server
• Database (Knowledge of Oracle or MySql orPostgres)
• ORM Framework
• Framework (Sping Boot, Structs, BOOTSTRAP)

Minimum Qualifications:

☐Min 65% in (10th, 12th , B.E/B.Tech in CSE from a recognized college/university).

Eligibility Criteria:

☐0-3 years of professional work experience post qualification. Preference will be given toGATE qualified candidates.

Job Description

Project Name: 4G Radio Access Network

Post code: 40

No. of Post(s): 6

Location: Bengaluru

Roles and Responsibilities:

- Platform Software/ Firmware/ Operating Systems/ Drivers Development, Testingand Trials

Skills and Abilities:

• Knowledge of Wireless Technologies, Computer Networking, Data Networking, Signal Processing
• Wireless network system architecture and subsystem design
• System Engineering Aspects,
• Testing and debugging tools, Signal generator/analyzers, Logic Analyzers
• Configuration Management, Scripting, Build and Development environment
• Able to work with Product integration and testing like functional testing, load testing, Stability testing, Regression testing etc
• Comfortable with organization processes
• Processors, Devices, SoCs, FPGA, on-board devices and interface devices.
• Operating Systems, distributions, packaging, devices, kernels, device drivers, dataplane development, uboot, compilation, linking, loading
• C/C++ programming skills along with scripting.
• Power-on self-test.

Minimum Qualifications:

☐Min 65% in (10th, 12th ,B.E/B.Tech in CSE /ECE from a recognized college/university).

Eligibility Criteria:

☐0-3 years of professional work experience post qualification. Preference will be given toGATE qualified candidates.

Job Description

Project Name: 4G Radio Access Network

Post code: 41

No. of Post(s): 6

Location: Bengaluru

Roles and Responsibilities:

RAN/RRH related development in FPGA, System level testing, and Trials

Skills and Abilities:

• Knowledge of Wireless Technologies, Computer Networking, Data Networking, Signal Processing
• Wireless network system architecture and subsystem design
• Computer Architecture, Digital Logic, Processor/FPGA/SoC interfacing
• Knowledge in hardware design (Circuit Design and Analysis, PCB, Devices, Signal andpower integrity, interface with CAD/VDG/EPG)
• Expertise in FPGA Development – Tools for FPGA development, Timing analysis, Languages (VHDL/Verilog), Simulation, Modeling, Programming
• Matlab and Simulink and equivalent tools
• Ability to learn and use RF analysis and design tools
• Testing and debugging tools, Signal generator/analyzers, Logic Analyzers
• SDR concepts, Waveforms, Digital Filters, Interfacing with IP from other vendors.
• Knowledge of industry standards, standardization
• Comfortable with organization processes
• Good understanding of 3GPP wireless standards

Minimum Qualifications:

☐Min 65% in (10th, 12th , B.E/B.Tech in ECE from a recognized college/university).

Eligibility Criteria:
☐0-3 years of professional work experience post qualification. Preference will be given toGATE qualified candidates.

Job Description

Project Name: 4G Radio Access Network

Post code: 42

No. of Post(s): 6

Location: Bengaluru

Roles and Responsibilities:

RRH Analog & RF Hardware and System Level Testing, Trials

Skills and Abilities:

• Knowledge of Wireless Technologies, Computer Networking, Data Networking, Signal Processing
• Wireless network system architecture and subsystem design
• Computer Architecture, Digital Logic, Processor/FPGA/SoC interfacing
• Expertise in hardware design (Circuit Design and Analysis, PCB, Devices, Signal andpower integrity, interface with CAD/VDG/EPG)
• Ability to learn and use RF analysis and design tools
• Testing and debugging tools, Signal generator/analyzers, Logic Analyzers
• Knowledge of industry standards, standardization
• Comfortable with organization processes
• Good understanding of 3GPP wireless standards

Minimum Qualifications:

☐Min 65% in (10th, 12th , B.E/B.Tech in ECE from a recognized college/university).

Eligibility Criteria:

☐0-3 years of professional work experience post qualification.

Job Description

Project Name: 4G Radio Access Network

Post code: 43

No. of Post(s): 8

Location: Bengaluru

Roles and Responsibilities:

LTE/NBIOT/5GNR Layer 2, Layer 3, RRM, SON Development, Testing, Trials

Skills and Abilities:

• Knowledge of Wireless Technologies, Computer Networking, Data Networking, Signal Processing
• Wireless network system architecture and subsystem design
• Testing and debugging tools
• Configuration Management, Scripting, Build and Development environment
• Able to work with Product integration and testing like functional testing, load testing, Stability testing, Regression testing etc
• Comfortable with organization processes
• C/C++ programming skills along with scripting.
• Unix Network Programming
• Data Structures and Algorithms
• Design Patterns
• Familiarity with Protocol Stack Development
• Good understanding of 3GPP wireless standards

Minimum Qualifications:

☐ Min 65% in (10th, 12th , B.E/B.Tech in ECE/CSE from a recognized college/university). Preference will be given to candidates from CSE background.

Eligibility Criteria:
☐ 0-3 years of professional work experience post qualification.

Job Description

Project Name: 4G Radio Access Network

Post code: 44

No. of Post(s): 6

Location: Bengaluru

Roles and Responsibilities:

LTE/NBIOT/5GNR Layer 2, Layer 3, RRM, SON Development, Testing, Trials

Skills and Abilities:

• Knowledge of Wireless Technologies, Computer Networking, Data Networking, SignalProcessing
• Knowledge of LTE / UMTS / WCDMA / HSDPA/ 5G or WLAN standards in the physicallayer and future developments within 3GPP, OFDM, MIMO
• Wireless network system architecture and subsystem design
• Testing and debugging tools
• Experience with handling of specific test equipment (signal generator, signal analyser,logic analyser and pattern generator) is beneficial
• Expertise in FPGA Development – Tools for FPGA development, Timing analysis,Languages (VHDL/Verilog), Simulation, Modeling, Programming
• Matlab and Simulink and equivalent tools
• DSP Programming skillset preferred
• Comfortable with organization processes
• C/C++ programming skills along with scripting.
• Unix Network Programming
• Data Structures and Algorithms
• Good understanding of 3GPP wireless standards

Minimum Qualifications:

☐Min 65% in (10th, 12th , B.E/B.Tech in ECE/CSE from a recognized college/university).
Eligibility Criteria:

☐0-3 years of professional work experience post qualification.

Project Name: 4G Radio Access Network

Post code: 45

No. of Post(s): 6

Location: Bengaluru

Roles and Responsibilities:

- Hardware Development, Integration Testing
- BOM preparation and verification
- Card level documentation
- QA Validation
- Card testing and Card level reworks
- Development, Testing and Trials

Skills and Abilities:

• Knowledge of Wireless Technologies, Computer Networking, Data Networking, SignalProcessing
• Wireless network system architecture and subsystem design
• Computer Architecture, Digital Logic, Processor/FPGA/SoC interfacing
• Expertise in hardware design (Circuit Design and Analysis, PCB, Devices, Signal andpower integrity, interface with CAD/VDG/EPG)
• Testing and debugging tools, Signal generator/analyzers, Logic Analyzers
• Knowledge of industry standards, standardization
• Comfortable with organization processes
• Good understanding of 3GPP wireless standards

Minimum Qualifications:

☐Min 65% in (10th, 12th , B.E/B.Tech in ECE from a recognized college/university).

Eligibility Criteria:

☐0-3 years of professional work experience post qualification.

<p style="text-align: center;"><u>Job Description</u></p>

<u>Project Name:</u> IPR/KMG

<u>Post Code:</u> 60

<u>No. of Post(s):</u> 01

<u>Location</u>: New Delhi

<u>Roles and Responsibilities:</u>

- Support for IPR filing, prior art & record keeping
- Training organization & management
- Maintenance of Learning Management System(LMS) software & training portal

<u>Skills and Abilities</u>:
- Well conversant with IPR (Patents,Copyright..) & patentability aspects
- Proficient in MS-Office (Excel, Word etc)
- Working knowledge of web development (PHP,MySQL,Apache,HTML/CSS,Linux...)
- Good inter-personal, communication & drafting skills.

<u>Minimum Qualifications:</u>

- Min 65% in (10th, 12th, BE/BTech in CSE/ECE or equivalent degree from a recognized college/university)

<u>Eligibility Criteria:</u>

0-3 years of professional work experience post qualification

Job Description

Project Name: 5G

Post Code: 65

No. of Post(s): 6

Location: Delhi

Roles and Responsibilities:

- Development & testing of 5G SA core of small-scale enterprise network/ network in a box
- Testing multi-vendor solutions in 5G Campus network

Skills and Abilities:

- Proficiency in the C/ C++ language, Algorithms, Data Structures, Linux, multi-threaded system and scripting
- Good knowledge of IP networking
- Candidates having knowledge of 4G/5G protocols shall be preferred

Minimum Qualifications:

- Min 65% in (10th, 12th and BE/B.Tech in CSE/ECE) from a recognized college/university

- ME/M.Tech. (CSE/ECE) will be given preference

Eligibility Criteria:

- 0-3 years of professional work experience post qualification.

Job Description

Project Name: 4G/5G Core Network Development

Post Code: 66

No. of Post(s): 32

Location: New Delhi

Roles and Responsibilities:

- Analyze system requirements by studying standards
- Create technical specifications based on standard requirements
- Preparing architecture design of the system/module
- Defining the interfaces with other modules
- Detailed design of the system/module
- Exploring the new technologies more appropriate for the system/module
- Shall be able decide the databases more suitable for the system
- Create scalable design
- Produce clean, efficient code based on specifications
- Write testing stubs as per CI/CD
- Testing of the system
- Module/System integration testing with other modules
- Create Test Plans and reports
- Automated building and testing environment creation
- Work with other team members
- Troubleshoot, debug and upgrade existing software
- Gather and evaluate user feedback
- Recommend and execute improvements
- Create technical documentation for reference and reporting
- Debug coding problems quickly and efficiently to ensure a productive workplace

Skills and Abilities:

- Shall have experience on Mobile Technologies (4G/5G)
- Should have worked cloud based software development
- Should have good knowledge of CI/CD
- Shall have experience of protocol software development
- Shall have good knowledge of networking concepts
- Shall have good expertise in development of Internet Protocol based applications
- Prefer candidates having 4G/5G protocols
- Shall have experience of database oriented application development
- Should have experience of Management Interface development
- Preference would be given to candidates having containers based application development experience.

Experience working on large-scale software projects

Professional experience using cybersecurity and open source technology

- Experience developing software utilizing various coding languages including C/C++, Golang, rust, java, web technologies etc
- Outstanding collaboration and communication skills are essential
- Experience developing secure software systems based upon industry specifications
- Analyze code for weaknesses and errors, and improve them.
- Experience developing customized code for multiple projects simultaneously

<u>Minimum Qualifications</u>:

- Min 65% in (10th, 12th and BE/B.Tech in CSE/ECE/IT from a recognized college/university

- ME/M.Tech(CS/EC/IT) from a recognized college/university will be given preference

<u>Eligibility Criteria:</u>

- 0-3 years of professional work experience post qualification.

Job Description

Project Name: 4G/5G Core Call Processing Software

Post Code: 67

No. of Post(s): 5

Location: Delhi

Roles and Responsibilities:
- Identification and analysis of software requirements
- Design and Development of software application
- Unit testing, Test case automation and debugging of software
- Functional and Integration testing

Skills and Abilities:

- Programming Languages -C/C++
- Linux based application programming
- Scripting Languages -TCL, Python, JavaScript,
- Protocols -TCP/IP, UDP, IPC, SIP, RTP handling, Diameter and Socket programming
- Database -Relational and Non-relational databases
- Clarity of Networking concepts
- Knowledge of compilation and debugging tools
- Preferably knowledge of Cloud Infrastructure, SDN Concepts, Network function virtualization and DevOps methodology

Minimum Qualifications:

- Min 65% in (10th, 12th and BE/BTech in CSE/ECE/IT from a recognized college/university

Eligibility Criteria:

- 0-3years of professional work experience post qualification.

Job Description

Project Name: 4G/5G Software Application Development

Post Code: 68

No. of Post(s): 45

Location: Delhi

Roles and Responsibilities:

- Identification and analysis of software requirements
- Design and Development of software application, User, Web Interfaces
- Unit testing, Test case automation and debugging of software
- Functional and Integration testing

Skills and Abilities:
- Proficiency in programming languages, such as C/C++/Java/Python

- Expertise in Web/UI development using following technologies/frameworks
    ◦ bootstrap
    ◦ React
    ◦ javascript/jQuery/Ajax
    ◦ Angular.js
    ◦ HTML5
    ◦ CSS
    ◦ JSP with Struts
    ◦ Python
- Good experience of using browser debugger tools like firebug or similar tools.
- Good knowledge of DOM structure.
- Good knowledge of hosting web applications on web server Tomcat/WildFly/NGINX.
- Should have worked with SOAP/JSON data serialization, XML,REST/OpenAPI.
- Knowledge of framework such as Netbeans,Eclipse,IntelliJ, SpringBoot/DJANGO
- Knowledge on Database MYSQL,PostgreSQL/ PSQL queries/Big Databases
- Knowledge of working with GIT and Maven
- Knowledge of OpenStack, Kubernetes and Docker environment

Minimum Qualifications:

- Min 65% in (10th, 12th and B.E. / B. Tech In Computer Science / Information Technology/ Electronics) from a recognized college/university

Eligibility Criteria:

- 0-3 years of professional work experience post qualification.

Job Description

Project Name: 4G/5G Project Management

Post Code: 69

No. of Post(s): 4

Location: New Delhi

Roles and Responsibilities:

- Project Requirement understanding and prioritizing
- Management of project activities and tracking via tool
- Training material preparation
- Generating quality documentation of project and maintaining document in repository

Skills and Abilities:

- Domain knowledge of 4G/5G protocols, architecture and network requirements
- Good analytical ability to understand customer requirement
- Skilled in technical writing
- Good communication skills
- Working knowledge of project management tools for creating project plans and generating various reports
- Good Knowledge of MS-Office tools

Minimum Qualifications:

- Min 65% in (10th, 12th and B.E. / B. Tech In Computer Science/IT/Electronics) from a recognized college/university

Eligibility Criteria

- 0-3 years of professional work experience post qualification

Job Description

Project Name: 4G/5G Field Support

Post Code: 70

No. of Post(s): 40

Location: Delhi/Bengaluru

Roles and Responsibilities:

Field Support for 4G Rollout

Skills and Abilities:

- Candidate shall have experience of installation, deployment and support of different elements of 2G/3G/4G network
- Candidate shall have experience of working on Network management and troubleshooting.
- Hands-on experience of working on UNIX/Linux environment, shell scripting will be an additional advantage
- Candidate shall have experience of working on Cloud environment.
- Knowledge of Architecture of EPC & IMS as well as different Call flows in 4G/Volte Network
- Good grasp on different Debugging Tools like Wireshark, Tcpdump, Tethereal
- Knowledge of VOIP, SIP, Megaco, Diameter, MAP, GTP etc.
- Knowledge of Networking Protocols i.e. OSPF, BGP, ACL, MPLS etc.
- Comfortable with frequent Travelling/Field Visit at Customer sites
- Good verbal and oral communication skill

Minimum Qualifications:

- Min 65% in (10th, 12th and B.E. / B. Tech In Computer Science / Information Technology/ Electronics) from a recognized college/university

Eligibility Criteria:

- 0-3 years of professional work experience post qualification.

- Experience of operation and maintenance/deployment in Field of Telecom and IP Networking will be given preference

Job Description

Project Name: 4G/5G Lab Infrastructure and Test Setup

Post Code: 71

No. of Post(s): 04

Location: New Delhi

Roles and Responsibilities:

- Ensuring availability of necessary hardware and software and other lab equipment
- Addressing any issues relating IP Networking, Faulty cards, Data configurations, Software versions etc.
- Maintaining and provisioning testing equipment for the users
- DC Power Plants/battery Banks Maintenance, Power provisioning support in Labs
- Cloud Infrastructure Setup for 4G labs
- Installation of OS, Controllers, computes and launching of 4G nodes
- Layer-2 and Layer-3 related configurations, IP planning
- Orchestrating the cloud services
- Installation of K8 clusters and launching applications on K8
- Management of resources for the various applications on the cloud
- Implementation of new services/features/releases at the cloud level

Skills and Abilities:

- Basic Knowledge of Networking and Cabling, Optical connectivity
- Strong IT skills, Creativity and Problem Solving
- Communicate regularly and be ready to learn new things.
- Be adaptable and flexible
- Knowledge of 4G, 5G, RAN equipment (eNodeB, gNodeB), switches and routers desirable

Minimum Qualifications:

- Min 65% in (10th, 12th ,BE/B.Tech in Computer Science/Information Technology/ Electronics or equivalent degree) from a recognized college/university)

Eligibility Criteria:

- 0-3 years of professional work experience post qualification. Preference will be given any cellular (2G/3G/4G) wireless deployment field experience

Job Description

Project: M2M Applications Development

Post Code: 72

No of Posts: 2

Location: New Delhi

Roles & Responsibilities

- Design and Development of oneM2M compliant IoT head-end applications using REST API.
- Design and development of web application modules such as user Interface, reporting module, analytical module, graphical design etc
- Design and development of database, schemas for new features
- Perform integrated testing of DB.
- Perform functionality testing, integrated testing w.r.t MVC web interface.
- Design, development, integration and testing of embedded applications on the field devices based on oneM2M standards
- Capture design specification in well documented requirement specifications and evolve appropriate systems architecture

Skills:

- Good Knowledge of
- C/C++, Python, HTML5/CSS3.
- Design and development of DTLS, TLS, Certificate based security , PSK
- Frameworks (Springboot, Eclipse, Arduino IDE, AngularJS)
- OpenCV, Keras, Tensorflow, NumPy, Django, Android Studio, SQLite
- XSD, JSON/XML (Storage of various types of data)
- Docker containers/Kubernetes
- oneM2M knowledge – desirable
- Linux System, shell scripting
  - Java, JavaScript, jQuery, React, bootstrap, CSS, Angular.js, struts, jsp and Junit
  - Database (Mysql, Postgre SQL, Mongo DB) queries, normalisation, performance tuning etc.
  - In-Memory data bases
  - OOPs concepts, Data structures and Algorithms
- Microservices, maven
- RESTful architecture
- Application and web server
- HTTP /CoAP/ MQTT

Minimum Qualifications: Min 65% in (10th, 12th and B.E. / B. Tech In Computer Science /Computer Engg/ Information Technology) from a recognized college/university

Eligibility Criteria:
- 0-3 years of professional work experience post qualification.

Job Description

Project: M2M Hardware integration and embedded software design and development

Post Code: 73

No of Posts: 1

Location : New Delhi

Roles & Responsibilities

- Design and integration of IoT field domain hardware involving sensors, actuators, microcontroller and microprocessor
- Perform functionality testing, integrated testing of the field domain nodes with CCSP (oneM2M compliant IoT platform)
- Design, development, integration and testing of embedded applications on the field devices based on oneM2M standards
- Capture design specification in well documented requirement specifications and evolve appropriate systems architecture
- Prepare product reports and documentation (Requirement specification doc, Systems diagram, Flowchart, Firmware architecture, Code documentation, etc.)

Skills:

Should have Good Knowledge of

- Embedded Hardware Design, Microchip PIC microcontrollers, AVR microcontrollers, NXP microcontrollers, Power Electronics, Analogue Circuits, Arduino, Raspberri Pi 3/4 , Jetson nano, ARM Cortex Processor
- 3GPP technologies particularly NB-IoT and Cat M1
- HTTP /CoAP/ MQTT
- Java, Python, Embedded C & C ++, MongoDB, MariaDB
- Design and development of DTLS, TLS, Certificate based security , PSK
- IDEs like Arduino IDE and others
- XSD, JSON/XML (Storage of various types of data)
- Docker containers/Kubernetes
- oneM2M knowledge – desirable
- Linux System, shell scripting

Minimum Qualification

- Min 65% in (10th, 12th and B.E. / B. Tech In Electronics and Communication) from a recognized college/university

Eligibility Criteria

• 0-3 years of professional work experience post qualification.

Job Description

Project Name: 4G/IMS and 5G (Validation)

Post code: 74

No. of Post(s): 20

Location: New Delhi

Roles and Responsibilities:

- In depth knowledge of Telecom products, knowledge of various interfaces used by these nodes as per 3GPP specification for IMS , 4G and 5G
- Should have practical experience of conducting validation of 4G/3G or IMS or any other core technologies.
- Field problem Simulation in lab
- Ability to identify problem and demonstrate the same to design team
- Preparation of various documents like Validation plan, User level document etc.
- Imparting training to field support team and customer
- Conducting field trail and validation testing in field.

Skills and Abilities:

- Experience of validation of telecom products
- Should have of well-versed with Integrations and interoperability activities
- Good knowledge and understanding of latest telecom technologies especially mobile networks. Should have in depth knowledge of 4G/5G and various interfaces and protocols as per 3GPP.
- Technical understanding of various telecom standards, interoperability and compliance requirements is required
- Excellent communicator, team player who can work independently also
- Scripting of test cases for automation
- Excellent problem finding and debugging skills

Minimum Qualifications:

• Min 65% in (10th, 12th and B.E/B.Tech in Computer Science/ Information Technology/ Electronics or equivalent degree) from a recognized college/university.

Eligibility Criteria:

• 0-3 years of professional work experience post qualification.

Job Description

Project Name: 4G/5G IT and Networking support

Post Code: 75

No. of Post(s): 03

Location: New Delhi

Roles and Responsibilities:

- Configuration and Management of Servers, Workstations and PCs.
- System administration of Windows OS (Windows servers and Desktop versions) and Linux based systems (Ubuntu, RedHat, CentOS flavours).
- Working knowledge on cloud will be added advantage.
- Should have good understanding of network configurations. Experience in switch and router configuration is desired.

Skills and Abilities:

- Install, configure, update and maintain Windows and Linux based systems.

- Installation of software packages and related configuration for Client/Server and cloud setup.

- Regular update of Patches, Hot fixes, Virus signatures and updating of related software.

- Network and Security Configuration in servers / systems.

- Configurations and setup for Online meetings platforms: Zoom, Microsoft Meetings, Google Meet, Webex , GoToMeeting etc.

- Troubleshooting of day to day problems related to working of Servers / PCs / Network on different versions of Windows and Linux.

Minimum Qualifications:

• Min 65% in (10th, 12[th,] BE/B.Tech in Electronics & Communication Engineering / Computer Science / Information Technology or equivalent degree) from a recognized college/university

Eligibility Criteria:

• 0-3 years of professional work experience post qualification.