Cox Communications is searching for a Network Engineer I. This role will perform engineering activities with knowledge & skills associated with the following technologies: IP Routing Protocols: OSPF, ISIS, BGP; Multi-Protocol Technologies: LDP, RSVP; IP Protocols: TCP, UDP, BFD; Ethernet Technologies: gigE, 10 gigE, VLANs, 802.1Q (VLAN tagging), 802.1P (layer 2 QoS), VRRP, HSRP; QoS Capabilities: classification, marking, queueing, policing. CGN (Carrier Grade NAT) Design/Test

Roles and Responsibilities

- Design and test network architectures.
- Test and validate code functionality to be used in the production network across multiple vendors.
- Assess and define testing strategy and test cases.
- Assist in equipment evaluations, equipment selection, pilot testing and network designs to ensure reliability and scaled expansion of the network.
- Assist in preparing engineering cost analysis to optimize return on investment.
- Assist in implementation of plans that enhance technical operation, compliance with rules and regulations, and permit the deployment of new technology.
- Support deployments of new services, systems, applications and architectures with installation, configuration, integration, evaluation, testing, documentation, and training.
- Resolves outage and trouble conditions on network platforms. Engages vendors as needed for support and for executing on vendor identified actions during issues.
- Responsible for the upkeep and maintenance of network platforms.
- Partners with change management for impact identification, network validation, MOP creation and execution of activities.
- Ownership of platform reliability reporting, platform quality, reliability, proactive reporting.
- Provide technical operations support and consultation to field technical operations teams.
- Provides telecommunication solutions to increase operational efficiencies, and expand...
- Conducts equipment evaluations, equipment selection, pilot testing and network designs to insure reliability and scaled expansion of the network. Prepare engineering cost analysis to optimize the return on investment.
- Provides detailed engineering support and consultation to other departments.
- Develops network element technical specifications.
- Supports new product deployments with installation, integration, testing, documentation, and training. Develops methods and procedures for troubleshooting.
- Makes specific recommendations and assists in implementation of plans that enhance technical operation, compliance with rules and regulations, and permits the deployment of new technology. Defines and compiles the methods of procedures and documentation to support personnel in the maintenance and day-to-day operation of the network.
- Develops and executes detailed network designs and architectural plans for network applications. Designs may include routed IPs, MPLS, or Internet topologies.
- May configure any or all of the following: router and switch technologies.
- Establishes network performance measurements and goals.
- Works with vendors to ensure equipment is installed and operating properly and resolves problems. Develops and implements proper operation and procedure for new technologies.
- May work closely with customers, directly or indirectly through Sales Engineers, to identify network needs that impact network design and support requirements.
- Responsible for all aspects of local network management and network management devices.
- May manage projects within Technology Operations Engineering to confirm delivery intervals and validate critical dates and milestones to ensure delivery of services stay on target.
- Coordinates with other departments to ensure the network is available and configured to exceed market demands. This includes the support of software upgrades and configuration changes and assisting technicians, SOC and NOC in troubleshooting outages and resolving escalations as appropriate.
- Facilitates communications with employees and other departments by holding or attending meetings, preparing reports, and participating on task forces.
- Develop methods and procedures for equipment migration (commercial).
- May perform reliability studies and assessments to ensure Cox is the Trusted Provider.

**Education and Qualifications**

**Minimum**

- 1+ year of experience preferred in related field (i.e. Engineering, Technical Operations)
- Requires strong knowledge of engineering including transmission, switching, powering, grounding, mechanical, and cabling. Working knowledge of various manufacturers’ telecommunications equipment.
- Demonstrated troubleshooting and diagnostic capabilities.
- Excellent interpersonal, leadership, presentation, and collaborative skills to work effectively with teams throughout organization

**Preferred Skills**

BS/BA degree in related discipline strongly preferred (i.e. Engineering or Computer Science). Prefer certification in IP technologies: CCNA, JNCIE-ENT

Experience in telecommunications industry desired.
How to Apply