



Management / Professional Job Description

Job Title: IP Network Engineer
FLSA Status: Exempt
Department: Engineering
Reports to: Director – Engineering & Operations

Job Summary The primary purpose of this position is to ensure the streamlined operation of the Engineering/IT Department in alignment with the business objectives of the organization. IT-related activities of the organization, as well as provide administrative direction and support for daily operational activities of the department. The IP Network Engineer will work closely with management and other departments to identify, recommend, develop, implement, and support cost effective technology solutions for all aspects of the organization.

Essential Job Requirements

1. Develop maintain regional carrier network emphasis on routing and switching.
2. Evaluate maintain interior exterior routing protocols.
3. Analyze & report network traffic flow.
4. Configure network equipment to achieve business goals for the iRIS carrier network.
5. Recommend appropriate network tools, software, and documentation to forecast, monitor and evolve the carrier network.
6. Implement new and current technologies in lab and live conditions.
7. Provide specific and detailed information for hardware/software selection, implementation techniques and tools for most efficient solution to meet business needs.
8. Assist in managing capital and operating expenses through prudent and efficient designs and resource management.
9. Develop, plan, implement and verify changes and improvements to the network infrastructure. Create/modify network drawings, develop MOPs, monitor projects and installations in accordance with operational and industry standards.
10. Work closely with Engineering & Operations to identify, in advance, potential problems in the network.
11. Cross-train with other team members, receiving and sharing knowledge and insights.

Nonessential Job Requirements

1. Perform other duties as required.

Supervisory Responsibilities

1. Supervisory responsibility is through influence of and gaining cooperation from technician and managers.
2. Manage expenses to conform to budget.

Knowledge, Skills and Abilities

1. Extensive knowledge BGP, VLANs, Layer 2 Circuits, virtual cross-connects and related protocols
2. Solid understanding of Ethernet technologies especially in regional networks.
3. Experience with IP Networking to include IPv4, IPv6 and the transition from IPv4 to IPv6. Must understand multicast IP concepts and applications.
4. Bachelor's degree in engineering or computer technology or Associates degree with 5+ years of relevant experience

5. 5 years of experience configuring Juniper equipment.
6. Experienced in data networking with certifications such as CCIE, ACE, JCNIE
7. Sales engineering or support experiences a plus.
8. Understanding of VOIP methodologies and SIP protocol.
9. Experience with large Enterprise WAN and Direct Internet concepts and costing.
10. Ability to create clear documentation, using Microsoft Word, Power Point, Excel, and Visio.

Physical and Mental Demands

1. Must be able to hear, and talk continuously throughout the day.
2. Must have clarity of vision, both near and far acuity, as well as depth perception and accommodation.
3. Outside work is medium in nature and requires exertion up to 50 lbs. of force occasionally and/or up to 20 lbs. of force frequently, and/or up to 10 lbs. of force constantly to move objects.
4. While in the office, work is sedentary in nature and requires exertion of up to 10 lbs. of force occasionally and/or a negligible amount of force frequently or constantly to lift, carry, push, pull or otherwise move objects, including the human body. Involves sitting most of the time, but may involve walking or standing for brief periods of time.
5. Must be able to reach, handle, finger, and feel objects.
6. Must be able to drive a car for long periods of time, when required.
7. Must have the mental ability to read, compare, copy, compute, compile, analyze and coordinate information and data.
8. Must be a methodical thinker, and able to understand and interpret technical information.
9. Must be analytical and detail oriented.
10. Ability to handle multiple tasks while meeting project schedules
11. Must be technical minded open minded and resourceful.
12. Must have a positive attitude.
13. Must be flexible to work outside normal working hours and days
14. Strong interpersonal skills. Demonstrated ability to communicate clearly and effectively.
15. Ability to work with minimal supervision and make sound technical judgments in a demanding environment.

Working Environment and Hazards

1. Works in a quiet, climate controlled office environment frequently.
2. Works in outside environment occasionally.
3. Exposure to noisy, cold, dark, dirty, wet, hot, dry conditions.
4. Exposure to low and high voltage (i.e. electrical shock), and optical laser (i.e. blinding laser).
5. Exposure to long-distance travel (i.e. road hazards).

Approved by _____

Date _____

Note: Nothing in this job description restricts management's right to assign or reassign duties and responsibilities to this job at any time.