

Networking/Telecommunications

Network Engineer

Responsible for installing networking technologies and supporting networks. Performs highly complex network engineering work. Data engineer that operates, monitors and manages network infrastructure. Responsible for the design, implementation, management and operational support of Network Infrastructure. Assesses existing network configurations and makes recommendations based on product specifications. Configures equipment and software to meet business needs, trains others on the solution, and documents the solution for ongoing support. Functions as part of a team on larger projects, or individually provides the services on support visits or smaller projects. Provides technical support and assists with the design of network solutions. Requires experience in the technical services and support field as well as experience in network administration (DHCP, DNS, routers, firewall, etc.).

- **Level 1:** 1- 5 years experience. Responsible for Network Infrastructure support. Work includes monitoring the Network bandwidth utilization, installation, configuration, repair and maintenance. Experience with TCP/IP, UDP, DHCP, DNS, MPLS, SONET, DWDM, EIGRP, BGP, HSRP, FTP, SFTP, STP, RSTP, TACACS+, ACS, RADIUS, RSA, SecureID, and SNMP monitoring and

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reporting Works with all Network Monitoring tools, makes changes and recommendations for updating tools and/or adding new tools.

- **Level 2:** More than 5 years experience supporting enterprise network IT infrastructure design, implementation, operational maintenance & support. Hands on experience with IP subnetting, Telnet/SSH Clients, Raritan or Terminal Server Remote Access, ServiceNow, COS, VoIP and MPLS technologies, and Cisco network software (COS/IOS), inventory/maintenance tracking and vendor support case handling; as well as with Cisco routers and Catalyst/Nexus switches, F5 load balancers and Infoblox DHCP/DNS. Proficient with network monitoring & administration tools such as Solar Winds, Splunk, Tivoli Netcool/Omnibus, NNMi, Netscout Infinistream and various Protocol Analyzers and with Microsoft Office suite including Visio for network diagramming and documentation is a big plus.

Wireless Network Engineer

Installing, configuring and maintaining wireless network equipment, network management and security including 802.11 b/g/n/ac standards and industry best practices for implementing high-density WIFI solutions.

- **Level 1:** 1-3 years of experience in the field or in a related area. Has knowledge of commonly used concepts, practices, and procedures within a particular field. Relies on instructions and pre-established guidelines to perform the functions of the job. Primary job functions do not typically require exercising independent judgment.
- **Level 2:** 4-7 years of experience in the field or in a related area. Familiar with standard concepts, practices, and procedures within a particular field. Relies on limited experience and judgment to plan and accomplish goals. A certain degree of creativity and latitude is required. Works under limited supervision with considerable latitude for the use of initiative and independent judgment.
- **Level 3:** 8 or more years of experience, relies on experience and judgment to plan and accomplish goals, independently performs a variety of complicated tasks, a wide degree of creativity and latitude is expected.

Network Administrator

Install, configure, and support an organization's local area network (LAN), wide area network (WAN), and Internet system or a segment of a network system. Maintain network hardware and software. Monitor network to ensure network availability to all system users and perform necessary maintenance to support network availability. May supervise other network support and client server specialists and plan, coordinate, and implement network security measures. Coordinate the development, implementation, and maintenance of a local area network or wide area network. Maintains the network's physical and logical structures, including network connections. Maintains network support software, analyzes user support statistics, and recommends appropriate measures. Installs, tests, and maintains network hardware and software. Prepares and analyzes statistics on network utilization and availability. Prepares training courses and provides user support and training in the use of available hardware, software, and

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utilities. Performs tuning and capacity planning activities to enhance the performance of the network resources.

Assists in maintaining the network's physical and logical structures and in installing and testing hardware and software. Assists in performance tuning and capacity planning activities to enhance the performance of the network resources and in maintaining network support software. Assists in or conducts product evaluations of upgraded or new hardware and software and identifies strengths, weaknesses, and potential benefits to the agency. Assists in maintaining the operating system and security software utilized on the network, including the addition of new users to the network and establishment of rights and privileges. Experience in local or wide area network work. Knowledge of network facilities and data processing techniques; of personal computer hardware and software; of network operating system and security software; and of performance monitoring and capacity management tools.

- **Level 1:** 1-3 years of experience in the field or in a related area. Has knowledge of commonly used concepts, practices, and procedures within a particular field. Relies on instructions and pre-established guidelines to perform the functions of the job. Primary job functions do not typically require exercising independent judgment.
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Telecommunications Manager

Plan, devise, build, configure and commission telecommunications equipment, networks, and systems, including voice, data, satellite, microwave, digital data systems, etc. Managers maintain records on installation, resolution of issues, and replacement of equipment and parts.

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Telecommunications Specialist

Focus on the interaction between computer systems, communication methods, and devices. They design video, data, and voice communication systems. They may oversee the installation and maintenance of these systems, including their repair and testing.

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- **Level 2:** 4-7 years of experience in the field or in a related area. Familiar with standard concepts, practices, and procedures within a particular field. Relies on limited experience and judgment to plan and accomplish goals. A certain degree of creativity and latitude is required. Works under limited supervision with considerable latitude for the use of initiative and independent judgment.
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Network Operations Center (NOC) Technician

Oversee complex network components and are responsible for network management. They perform troubleshooting on a daily basis. To be specific, a NOC is a central location from which IT support technicians administer, monitor, fix, and maintain client networks.

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- **Level 2:** 4-7 years of experience in the field or in a related area. Familiar with standard concepts, practices, and procedures within a particular field. Relies on limited experience and judgment to plan and accomplish goals. A certain degree of creativity and latitude is required. Works under limited supervision with considerable latitude for the use of initiative and independent judgment.
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Undefined Title: Networking/Telecommunications

Customer defined title, position, job description, and experience level. This Undefined Position does not have an associated Not to Exceed Rate. Customers must competitively solicit DIR ITSAC Vendors in accordance with threshold requirements and negotiate rates directly with Vendor.