



Posting #: 11-01-09

Non-Merit Position
(This position is exempt from the State of Delaware Merit System)

JOB TITLE: Telecommunications/Network Technologist II

OPENING DATE: November 6, 2009 CLOSING DATE: November 20, 2009

PAY GRADE: PG 18 \$54,683

CLASS CODE: L23219

GENERAL DESCRIPTION:

This is the lead level or senior/advanced level of telecommunications technology responsible for planning, configuring, and installing mid-range or most complex data networks infrastructure, evolution and migrations to next generation networks.

ESSENTIAL FUNCTIONS:

Plans, designs and implements new/upgraded data networks to include determination of telecommunications needed such as: types of transmission lines, required speed of lines. Performs or reviews measurements to determine needed bandwidth, location and number of circuits (SMDS) and hardware capacity. Forecasts business application needs. Determines and plans: route of multiple protocols, traffic schedules, deployment of upgrades and new installations, etc. Supervises the installation/maintenance of switch rooms, networks, interface and multiplexing equipment, port connections, transmission lines, and other telecommunications equipment. Projects future business needs and develops strategic business plan for expansion and installation of data network and disciplines. Makes recommendations for short and long term telecommunications capacity, configuration and other planning to meet agency business needs. Researches and investigates emerging and leading edge technologies; assesses applicability to business demands and problems and works with the State Office of

Telecommunications Management for major network redesigns. Researches and defines agency network design requirements including security, cost/benefit, operational parameters, integration with existing systems and resource utilization. Assesses network impact load balances, and performs other tuning work to ensure efficient and effective utilization of network resources. Plans and implements redundancy. Plans and provides migration methodology to future or next generation network technologies in ways that meet business needs. Develop tactical and strategic planning strategies for data networks to ensure network capacity meets current and future requirements. Uses appropriate tools such as network application programs that produce traffic utilization reports, etc. Investigates, analyzes, designs, recommends and implements upgrades using an evaluation of the feasibility, capability, performance, and cost effectiveness of potential system configurations and vendors. Develops the network infrastructure plan. Assesses current network to determine hardware and software requirements, designs routine technical specifications for procurement of new equipment, develops cost estimates for construction and renovation projects. Evaluates potential designs for feasibility and cost effectiveness; presents project plans and recommendations to management as required to ensure business needs are met. Oversees and coordinates the work of technical staff in the absence of technical supervision or on a project basis or as assigned by management. Oversees and directs all phases related to multiple simultaneous and/or complex diverse projects; defining the scope and objectives of projects; formulating and determining work plans, project priorities and time schedules; and coordinating project activities to achieve objectives. The work or project leader is accountable for the work product of two or more full-time equivalent positions, including timeliness, correctness, and soundness. This level performs senior level work in the implementation and management of a multiple protocol, multiple work location network responsible for network operating systems, servers, peripherals, including server software modules, workstation interfaces, security levels and diagnostic utility software. Functions as authority in the application and utilization of network analysis principles, practices, theories, concepts, methods and standards. Acknowledged as senior level network professional by agency management, along with peers and users, who rely on such positions to provide guidance, direction, and instruction on the proper application and/or adaptation of standards, principles, concepts, techniques, protocols and guidelines in the analysis, design, configuration, implementation and installation of LAN systems, including hardware, operating system software and user applications. applies independent judgment in selecting, adapting and applying telecommunications techniques to solve problems associated with the design, construction, maintenance and operation of all department telecommunications/networks. Formulates strategies that support objectives and activities of network systems including changes in direction and new initiatives. Oversee a Technical Support help desk staff; provide second tier support to the staff; direct and instruct the staff to assume ongoing IT tasks that will also assist the Network Technologist's work. Performs related work as required.

KNOWLEDGES, SKILLS, AND ABILITIES:

Knowledge of the principles and practices of telecommunications/network technology planning, design, configuration and installation for midrange or most complex data networks. Knowledge of the principles and practices of project leadership. Skill in the development, implementation and management of a midrange data network. Skill in data network principles, practices, theories, concepts, methods, and standards.

JOB REQUIREMENTS:

Applicants must have education, training and/or experience demonstrating competence in each of the following areas:

At least two years' experience in planning, designing and installing data networks for telecommunication needs such as bandwidth, multiple protocols, transmission lines, interface and multiplexing equipment, port connections, control packets and other equipment.

Knowledge of information technology project management which includes planning, scheduling, staffing, coordinating, controlling, monitoring, evaluating and reporting on status of IT projects.

Knowledge of developing strategic business plans for the expansion and installation of data network and telecommunications infrastructure including an evaluation of the feasibility, compatibility and cost effectiveness.

MINIMUM QUALIFICATIONS: Experience in installing, testing, and configuring communication systems and their associated wiring, network dependent devices and infrastructure components. Experience in administering networks including troubleshooting, diagnosing and resolving problems. Experience in network design/redesign. Knowledge of project management. Ability to communicate effectively.

CONDITIONS OF EMPLOYMENT:

Direct deposit of paychecks is required as a condition of employment. Applicants must be legally authorized to work in the United States. A satisfactory criminal background check is required as a condition of employment. Union Covered Positions - A labor organization has been elected by employees as their representative for collective bargaining and other work related purposes. The person selected for this position shall as a condition of employment, join and pay dues to the labor organization or may, instead not join but pay a service fee no greater than the dues. The labor organization is required to represent all employees, even those who do not join.

Benefits: To learn more about the comprehensive benefit package please visit the State Personnel web-site at <http://delawarepersonnel.com/benefits/index.htm>

APPLICATIONS:

Please submit a Delaware State Police civilian application to:

DELAWARE STATE POLICE, Human Resources Office, P.O. Box 430, Dover, DE 19903

Applications can be found at our website at:

<http://www.dsp.delaware.gov/recruiting/civilian.shtml>

Applications can also be found at any troop or at our Headquarters at 1441 N. Du Pont Highway, Dover, DE 19903

Attachments to Applications:

- Please do not submit copies of evaluations, letters of reference, training certificates, or college transcripts unless requested.
- Applications or additional information will not be accepted after the closing date.
- Resumes will not be accepted unless accompanied by a State of Delaware Application.

Accommodations:

- Accommodations are available for applicants with disabilities in all phases of the application and employment process. To request an auxiliary aid or service please call (302) 739-5458
- TDD users should call the Delaware Relay Service Number 1-800-232-5460 for assistance.

The State of Delaware - An Equal Opportunity and Affirmative Action Employer

(Career Ladder: This position is in a career ladder series.)