

SENIOR NETWORK ENGINEER

49-N

DISTINGUISHING FEATURES OF THE CLASS: This position has responsibility for the overall engineering of the enterprise-wide network including the planning, design, installation, maintenance, management and coordination of the County or municipalities LAN/WAN infrastructure. The incumbent will provide integrated team support and maintenance of LAN hardware and software. This position will provide liaison support between the PC/LAN team, vendors, and User Support staff. Work is performed under supervision of the Chief Information Officer and/or the Director of Operations and Network Administration, with leeway for independently performing the duties of the position.

TYPICAL WORK ACTIVITIES: *The typical work activities listed below, while providing representative examples of the variety of work assignments in the title, do not describe any individual position. Incumbents in this title may perform some or all of the following, as well as other related activities not described.*

Analyzes vendor products to determine those which best meet County or municipalities needs;

Assists in presentation of information to management on purchasing and installation of hardware, software and modem equipment;

Evaluates new products/technologies to determine impact on existing system configuration;

Recognizes, researches and resolves complex server/network problems;

Operates a variety of computer equipment and machinery;

Documents all existing technology in departments;

Performs daily or other periodic procedures to create backup tapes of all data contained on the network;

Provides technical advice and assistance to PC Technicians and Users in support of their use of network resources;

Administers security and maintenance on servers according to manufacturer and departmental

standards;

Develops and monitors LAN/WAN performance and utilization statistics and prepares reports for management summarizing network status;

Researches and remains current on modern technological advances and education;

Recommends, installs and relocates hardware and software for servers, including assembly, configuration and transport;

Modifies, updates or replaces internal or external equipment parts as required;

Assists with the preparation of server documentation, specifications, instructions and user manuals as needed;

Notifies appropriate Information Technology staff of software failures and performs computer diagnostics;

Informs supervisor as to status of all operating problems;

Assists in managing inventory of server and associated equipment;

Prepares and maintains operating records and reports;

May access protected health information (PHI) in accordance with departmental assignments and guidelines defining levels of access (i.e. incidental vs. extensive);

May perform other incidental tasks, as required.

FULL PERFORMANCE KNOWLEDGES, SKILLS, ABILITIES, AND PERSONAL CHARAC-

TERISTICS: Thorough knowledge of large enterprise environment involving the installation, maintenance and operations of Data Center Server, Data Mass Storage, and Networking equipment; thorough knowledge of Microsoft System/Server Products including: MS Active Directory, DHCP, DNS, Group Policy and IIS; good knowledge of installation and support of products such as

Tape Backup Systems, Enterprise Virus Protection, Network Management, etc.; good knowledge of monitoring and testing hardware and software tools; good working knowledge of VMWare products, including, but not limited to vSphere, View, VDI all in a clustered environment involving the creation of virtual servers, workstations and administration of ESXi hosts; ability to analyze and solve complex problems; ability to develop effective working relationships; ability to plan and coordinate various activities between the municipality and outside vendors; ability to express self clearly both verbally and in writing; ability to prepare written summaries and reports; and ability to evaluate technology trends.

MINIMUM QUALIFICATIONS: Either:

- (A) Graduation from a regionally accredited college or university or one accredited by the New York State Board of Regents to grant degrees with a Bachelor's Degree or higher in Computer Sciences, Computer Engineering, or a related field, and eight (8) years experience in Network Engineering in a large enterprise environment with specific knowledge of Microsoft operating systems software as might be indicated by attaining generally recognized industry certifications such as Microsoft Certified Systems Engineer, VCP or CCNA; or
- (B) Graduation from a regionally accredited college or university or one accredited by the New York State Board of Regents to grant degrees with an Associate's Degree in Computer Sciences, Computer Engineering, or a related field, and ten (10) years experience as described in (A) above; or
- (C) Graduation from high school or possession of a high school equivalency diploma and twelve (12) years experience as described in (A) above; or

- (D) An equivalent combination of experience and training as defined by the limits of (A), (B) and (C) above.

SPECIAL NOTE: Nationally recognized system certifications such as Microsoft Certified Systems Engineer (MCSE), VCP (VMWare Certified Professional) and/or Cisco Certified Network Associate (CCNA) will be considered as meeting 3 months of experience for each certification.

SPECIAL REQUIREMENTS FOR APPOINTMENT: Must possess and maintain a valid driver's license; ability to safely lift and carry fifty (50) pounds.

NOTE: Your degree or credits must have been awarded by a college or university accredited by a regional, national, or specialized agency recognized as an accrediting agency by the U.S. Department of Education/U.S. Secretary of Education. If your degree or credits were awarded by an educational institution outside of the United States and its territories, you must provide independent verification of equivalency. A list of acceptable companies who provide this service can be found on the Internet at: <https://www.cs.ny.gov/jobseeker/degrees.cfm>. You must pay the required evaluation fee.

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