

SENIOR NETWORK AND SYSTEMS ARCHITECT

SUMMARY: Under general direction, provides expert level IT systems and network design and support services to internal and external customers; collects and interprets business requirements into technical system and network solutions that align with organizational and departmental security policies and procedures, infrastructure standards and industry best practices. Collaborates with all IT Divisions, organizational subject matter experts (SME's), and respective vendors\consultants\manufacturers' to develop technology roadmaps as they relate to the overall technology posture of the organization; and performs related duties as assigned.

ESSENTIAL FUNCTIONS: *(Essential functions, as defined under the Americans with Disabilities Act, may include the following tasks, knowledge skills, and other characteristics. This list is ILLUSTRATIVE ONLY, and is not a comprehensive listing of all functions and tasks performed by incumbents of this class.)*

DUTIES AND RESPONSIBILITIES: (Which are **not** in any hierarchical order)

1. Provide technical direction for systems and network planning, design, integration, implementation and maintenance placing emphasis on video, voice and data platforms.
2. Serve as expert level (tier three) support specialist and provide escalation procedures for all areas of primary responsibility.
3. Develop and maintain organizational system and network documentation, physical and logical inventory and corresponding diagrams to include discreet components and inter-connectivity.
4. Create and maintain contract inventory to include support and sales contact information, account numbers and or method used for support escalation and console or system access.
5. Serve as technical lead for and conduct research and comparative analysis for new systems and network initiatives to include business need, feasibility, cost benefit analysis, total cost of ownership, and proposed short and long term capital and operational expenses. Prepare supporting documentation and conduct presentations for various audiences to influence and create understanding and acceptance.
6. Collaboratively, develop and maintain system and network standards, service level agreements, and standard operating procedures.
7. Develop and maintain a high availability, sustainable and scalable system and network design taking into consideration business continuity and disaster recovery solutions.
8. Performs other duties as assigned.

KNOWLEDGE, SKILLS AND ABILITIES:

- Advanced knowledge and experience with IP protocol such as IPv4 and IPv6
- Advanced knowledge and experience with typical routing protocols such as Border Gateway Protocol (BGP), Open Shortest Path First (OSPF), and Enhanced Interior Gateway Routing Protocol (EIGRP)
- Advanced knowledge and experience with tunneling protocols and transport mechanism's such as Generic Routing Examinations (GRE), Layer 2 Tunneling Protocol (L2TP), IPsec and Virtual Private Network (VPN)
- Advanced knowledge and experience with high availability protocols such as Virtual Router Redundancy Protocol (VRRP), Hot Standby Router Protocol (HSRP), and Link Aggregation Control Protocol (LACP)
- Advanced knowledge and experience with network virtualization technologies such as Multiprotocol Label Switching (MPLS) and Virtual Routing and Forwarding (VRF)
- Advanced knowledge and experience with Quality of Service (QOS) as it pertains to network convergence
- Advanced knowledge and experience with various versions of Microsoft Windows and Unix systems as it pertains to network connectivity
- Ability to establish and maintain effective working relationships with those contacted in the course of work.

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PHYSICAL REQUIREMENTS AND WORK ENVIRONMENT: Must possess physical characteristics to perform essential duties of the job including sit at a desk for long periods of time in front of a computer terminal; intermittently twist and/or bend to reach equipment or supplies; perform simple grasping and fine manipulation; use telephone and computer keyboard on daily basis; use color visual acuity. The City of West Palm Beach promotes and maintains a drug/alcohol free work environment through the use of mandatory pre-employment and random drug testing for certain employees.

MINIMUM QUALIFICATIONS: Bachelor of Science degree from an accredited college or university with a major in an Information Technology discipline and eight (8) years of expert level in an Information Technology discipline or equivalent experience (hands-on), with end to end IT systems and network design and management, or equivalent combination of training and experience.

Cisco Certified Network Professional (CCNP) with emphasis on Routing and Switching, required or ability to obtain within six months of employment. Cisco Certified Internetwork Expert (CCIE) with emphasis on Routing and Switching, highly desirable.

A valid Florida Class E driver's license, required. A valid driver's license from any state (equivalent to a State of Florida Class E) may be utilized upon application; with the ability to obtain the State of Florida driver's license within 30 days from day of appointment.