

 <p><b>STATE OF INDIANA</b> CLASSIFICATION SPECIFICATION</p>	<b>Class Title:</b> Network Engineer – Senior		<b>Class Code:</b> 001BK1
	<b>FLSA Status:</b> Exempt	<b>Salary Schedule:</b> RDS	<b>Effective Date:</b> 11-25-14
	<b>Summary:</b> Incumbent is responsible for the design, configuration and implementation of networks including the core, distribution and access layers of a network.		

**Duties:**

- Provides expertise regarding the architecture, planning, design and implementation of complex network systems;
- Develops, plans, and implements the overall strategic goals of an organizational network design;
- Coordinates and facilitates timely repairs ensuring the availability of technology related systems;
- Consults on complex projects and is considered to be the top level contributor/specialist;
- Provides the highest level of escalation and resolution of issues for the campus area network, wide area network, and other local area networks;
- Manages the assessment and optimization of network design through review and assessment;
- Oversees and manages the maintenance of the multi-layer switches and routers, client and network VPN appliances, intrusion prevention systems, firewalls, protocol analyzers, video over IP, network management products, wireless networks and Voice over IP (VoIP) systems or any other new technology;
- Oversees and performs identification of system/network problems;
- Oversees and performs the testing, adjusting and troubleshooting of equipment;
- Develops and conducts feasibility studies for large projects;
- Develops requests for proposals;
- Performs capacity planning to ensure network demands;
- Interfaces with vendor support to resolve hardware/software compatibility issues;
- Evaluates vendor products and makes recommendations on selection;
- Provides tactical and strategic input on overall network planning and related projects;
- Manages the support, monitoring and troubleshooting of hardware/software problems and recommends scheduling of repairs;
- Mentors and provides guidance to new and lower-level staff;
- Evaluating new technology and products to determine the feasibility of implementation;
- Provides guidance to user agencies for maximum utilization of the communications infrastructure;
- Participates in formulating the office services budget and oversees the expenditure of funds;
- Performs related duties as required.

**Job Requirements:**

- Thorough knowledge of networking hardware/software;
- Thorough knowledge of advanced multi-protocol network environments;
- Thorough knowledge of advanced switching techniques;
- Thorough knowledge of advanced load balancing methodologies;
- Thorough knowledge of advanced encryption strategies;
- Thorough knowledge of different topology systems;
- Thorough knowledge of network design and traffic engineering;
- Thorough knowledge of network designing, implementing and managing security practices;
- Thorough knowledge of network capacity planning and event management tools;
- Thorough knowledge of all guidelines, policies and procedures related to multi-protocol services;
- Advanced knowledge of wireless protocols and technologies;
- Effectively communicate, both orally and in writing;
- Ability to read, understand and interpret complex manuals and blue prints.

**Difficulty of Work:**

Work is broad in scope requiring extensive judgment in adopting techniques to meet the information technology requirements, specifications, standards and procedures of a complex enterprise-wide system.

**Responsibility:**

Work has a direct influence and impact on the state's ability to successfully administer the business operation to achieve agency mission, policy or practice. Technical instruction is generally not needed; however, incumbent may seek guidance when unique problems arise. Work is reviewed for adherence to deadlines and attainment of objectives.

**Personal Work Relationships:**

Incumbent interacts with all levels of management across multiple agencies, units, divisions and departments for the purpose of designing, planning, coordinating, installing and implementing various networking projects and to resolve operational issues. Outside vendors are contacted in gathering information, obtaining professional support and resolving issues. Incumbent must use diplomacy and persuasion in gaining consensus regarding complex network system and service issues.