Position: Senior Systems Engineer	FLSA: Non-exempt
Department/Site: Technology Services	Salary Grade: 20
Evaluated by: Director of Technology Services	

OVERALL OBJECTIVE AND SUMMARY

Under the general supervision of the Director of Technology Services, apply advanced skill and knowledge of complex network protocols and knowledge of multiple operating systems in gathering, analyzing, synthesizing, planning and designing unique and original solutions for integrating networks and/or updating existing and new systems. Serve as a project leader.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Regularly evaluate new and emerging technology and apply to innovative network solutions in the context of institutional needs.
- Resolve the most complex network problems.
- Evaluate complex network performance analysis and recommend appropriate action to supervisor.
- Act as technical liaison for network product or system vendors.
- Install, support, maintain and configure networks for the District.
- Research and perform analysis to identify system expansions to meet anticipated future requirements.
- Install, configure and maintain network software including network monitoring and security software.
- Install, configure and maintain software for routers, bridges, switches and other network devices.
- Develop original solutions for inter/intra operability network maintenance.
- Communicate with outside organizations regarding computer maintenance, materials and product capabilities.
- Research and recommend new architecture of networks and security for maximum technical advantage.
- Read, understand, and interpret construction drawings and specifications.
- Performs other duties as assigned that support the overall objective of the position.

QUALIFICATIONS

Knowledge of:

- The technical aspects of systems and networks—specifically, Ethernet, switching, TCP/IP addressing and routing.
- Interpersonal skills using tact, patience, and courtesy.
- Telephone techniques and etiquette.
- Oral and written communication skills.

Ability to:

- Design, develop and implement solutions for large networks.
- Design, develop and implement security solutions.
- Read, understand, and interpret construction drawings and specifications.
- Effectively use interpersonal skills with tact, patience, and courtesy.
- Apply independent technical judgment to complex technical situations.
- Coordinate schedules and resources with systems and systems engineers and users.
- Apply extensive application of knowledge in integrating network protocols to complex solutions and understanding relationships between applications.
- Operate computers and peripheral equipment properly and efficiently.
- Diagnose and understand reasons for network system failures.
- Maintain current knowledge of technological advances in the field.
- Maintain records and prepare reports.
- Prioritize and schedule work.
- Analyze situations accurately and adopt an effective course of action.
- Work independently with little direction and provide work directions to others.
- Understand and follow oral and written directions.
- Communicate effectively both orally and in writing.
- Establish and maintain cooperative and effective working relationships with others.

PHYSICAL ABILITIES

This position requires:

- The ability to hear and speak to exchange and retrieve information in person and on the telephone.
- Dexterity of hands and fingers to operate a computer keyboard and adjust computer equipment.
- Visual acuity to read technical documents and instructions.
- Ability to lift, carry, push and/or pull items of light to medium weight (less than 25 lbs).
- Bend at the waist, kneel, or crouch.
- Sit or stand for extended periods of time.
- Climb a stool/ladder and reach above shoulders.

EDUCATION AND EXPERIENCE

Any combination equivalent to a Bachelor's degree in computer science or related field plus five years experience in network design development and support and computer systems responsibilities is desired.

LICENSES AND CERTIFICATES

Possession of a valid California Drivers' License and proof of insurance are required.
CISCO CCNA or HP Procurve ASE certification or equivalent is desired.