

SYSTEMS PROGRAMMER-CISCO NETWORKING

The eligible list resulting from this examination may be used to fill similar positions.

PURPOSE: Under the direction of the Technical Services Manager, the Systems Programmer-Cisco Networking supports, maintains, and implements networks consistent with the Milwaukee Public School System's Technology Strategic Plan. The person in this position installs, customizes, and maintains network operating system software on Cisco routers and switches. To increase District network efficiency and security, the Systems Programmer evaluates current systems and recommends new services, technology, and software, including creating specifications, planning, and developing software. The System Programmer serves as a key technical resource for other senior staff, providing advice, training, and technical support for various projects.

ESSENTIAL FUNCTIONS:

Network Engineering and Administration:

- Provides network engineering and administrative support for enterprise systems and services.
- Resolves challenging enterprise system problems.
- Initiates and coordinates the escalation of computer system and application problems to District staff or third-party vendors.
- Performs both routine and intermittent administrative tasks for daily operations of complex systems.
- Collects, analyzes, and reports on operational data to use in maintenance, performance tuning, and capacity planning for future enterprise system enhancements and upgrades.
- Independently determines strategies for performing network engineering and administration tasks.

Emerging Technologies Research and Development:

- Researches emerging technologies and provides direction to management on the feasibility of the technologies being considered by the District.
- Develops, designs, implements, and integrates new technologies and coordinates with different functional areas as needed.

Security Engineering and Administration:

- Provides engineering and administrative support for enterprise security technologies and services.
- Identifies security technologies to minimize security risks to the organization.
- Develops, designs, and implements new security technologies.

Project Planning and Implementation:

- Plans, analyzes, designs, and implements enterprise systems and services.
- Researches, recommends, and provides justification for modifications to complex systems, including upgrades, additions, or deletions.
- Directs and performs systems administration tasks for project implementations.
- Provides technical direction and leadership through all planning and implementation processes.

Professional Development:

- Actively participates in the network engineering community to remain current with new developments.

Other:

- Performs other duties as assigned.

Reasonable accommodations requested by qualified individuals with disabilities will be made in accordance with the Americans with Disabilities Act (ADA) of 1990.

MINIMUM REQUIREMENTS:

1. Bachelor's Degree in computer science, software engineering, information systems, or a related field from an accredited college or university. *NOTE: Copies of transcripts should be submitted with application or sent to staffinginfo@milwaukee.gov or to the City of Milwaukee, Department of Employee Relations, Attention: SP-CN, 200 E. Well St, Room 706, Milwaukee, WI 53202. (Student copies are acceptable.)*
2. Three years of experience in network administration, software engineering, and enterprise security management performing duties related to this position.

Equivalent combinations of education and experience may also be considered.

Systems Programmer, Cisco Networking (MPS)

3. Residency in the City of Milwaukee within six months of appointment and throughout employment.

DESIRABLE QUALIFICATIONS:

- Cisco CCNP certification

KNOWLEDGE, SKILLS, ABILITIES, AND OTHER CHARACTERISTICS:

- Expert knowledge of Cisco routing, network infrastructure software such as IOS, Internet protocols such as TCP/IP, and multiservice access technologies.
- Knowledge of computer programming languages.
- Knowledge of network security technologies and concepts, including encryption and cryptography (openssl, secure shell, IPSec), intrusion detection systems (host- and network-based), firewall technology, secure protocols, secure programming, and authentication tools.
- Knowledge of standards-based network protocols (i.e., RADIUS, TACACS, DNS, DHCP).
- Knowledge of software development tools and application development methodologies
- Knowledge of project management strategies and the ability to plan, organize, and manage multiple projects effectively.
- Ability to plan, install, configure, administer, maintain, and provide technical support for network systems and computing infrastructure, including hardware, software, and peripheral devices.
- Ability to monitor system performance and implement performance tuning.
- Ability to use standard applications such as word processing, spreadsheet, database, and presentation software as well as proprietary software and Web-based applications and tools.
- Analytical and problem-solving skills.
- Ability to use judgment to make sound decisions.
- Ability to learn emerging technologies quickly.
- Ability to research new solutions and apply strategic thinking to decisions about future development.
- Oral communication, training, and presentation skills.
- Written communication skills, particularly the ability to write technical specifications, operational documentation, support materials for end-users, and reports.
- Ability to work collaboratively in a diverse, multi-level, cross-functional team environment.
- Customer service and end-user support skills.

THE CURRENT SALARY RANGE IS: \$62,118-\$73,454 annually with excellent benefits.

THE SELECTION PROCESS will be job related and will consist of one or more of the following: training and experience evaluation, written or oral tests, performance tests, or other assessment methods. The Department of Employee Relations reserves the right to call only the most qualified candidates to an oral examination. Oral examinations may include written exercises. Selection process component weights will be determined by further analysis of the job.

The examination will be held as soon as practical after **September 1, 2011**. Receipt of applications may be discontinued at any time after this date without prior notice, however, recruitment may continue until the needs of the City have been met. Qualified applicants will be notified of the date, time and place of the examination.