

Job Title: **Enterprise Network Architect**
Job Family: **IT Administrative**
Pay Program: **Administrative**
Typical Work Year: **12 months**

Job Code: **260417**
FLSA Status: **Ex- C**
Pay Range: **L14**

SUMMARY: The Network Enterprise Architect provides enterprise-level architectural leadership for the district's network and connectivity systems. This role is responsible for the long-term strategic design, standardization, governance, and lifecycle planning of all network infrastructure, including LAN, WAN, wireless, internet edge, segmentation, firewall architecture, and network access control systems. This position ensures that network architecture aligns with District business objectives, cybersecurity risk posture, resilience strategy, bond lifecycle planning, and enterprise infrastructure standards. The Network Enterprise Architect role collaborates closely with the Enterprise Infrastructure Architect, Enterprise Resilience Architect, IT leadership, business stakeholders, and external partners to ensure scalable, secure, and financially sustainable connectivity solutions across all District facilities. This position is Level V on the Network/Systems Administrator IT Career Ladder.

ESSENTIAL DUTIES AND RESPONSIBILITIES: *To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill and/or ability required. Reasonable accommodation may be made to enable individuals with disabilities to perform the essential functions.*

Job Tasks Descriptions	Frequency	% of Time
1. Develop and maintain the district's enterprise network architecture roadmap (3–7-year horizon), aligning with bond planning and lifecycle modeling.	D	20%
2. Define and govern network standards including routing, switching, wireless, segmentation, firewall zoning, and NAC architecture.	D	20%
3. Lead architectural review of major infrastructure initiatives, ensuring scalability, security, and long-term sustainability.	D	15%
4. Define enterprise segmentation models in collaboration with security and resilience stakeholders.	D	10%
5. Conduct capacity forecasting, performance modeling, and lifecycle refresh planning for District-wide connectivity systems.	D	10%
6. Evaluate emerging technologies and vendor proposals, providing architectural direction and recommendations to IT leadership.	D	10%
7. Provide governance oversight for network-related change management and exception approvals.	D	10%
8. Perform other duties as assigned.	D	5%
TOTAL		100%

EDUCATION AND RELATED WORK EXPERIENCE:

- Bachelor's degree in information systems or a related field. Four years of similar and relevant experience may be substituted for this requirement.
- Ten to twelve years of progressive experience in enterprise network engineering and architecture.
- Demonstrated experience designing large-scale, multi-site enterprise network.
- Proven experience with enterprise routing and switching platforms, firewall and segmentation technologies, network access control, WAN optimization, fiber plant design considerations, cloud connectivity architecture, wireless design and architecture, and network monitoring and performance platforms.
- Experience in lifecycle planning, capacity modeling, and strategic infrastructure roadmap development.
- Experience in large/enterprise public sector or similarly complex environment.

LICENSES, REGISTRATIONS or CERTIFICATIONS:

- Criminal background check required for hire.
- Preference for candidates with certifications including Cisco CCNP/CCIE, Cisco CCNA, etc.

TECHNICAL SKILLS, KNOWLEDGE & ABILITIES:

- Enterprise Network Architecture:
 - Develop reference architectures for LAN, WAN, wireless, internet edge, and secure connectivity.
 - Design segmentation strategies aligned with cybersecurity and resilience objectives.
 - Architect high-availability and fault-tolerant network models.
 - Define standards for fiber infrastructure, switching platforms, and wireless deployments.
 - Lead architectural decisions related to data center interconnects and WAN resiliency.
- Security and Governance:
 - Define network access control architecture and enforcement.
 - Establish firewall zoning models and traffic control.
 - Align network controls with risk mitigation strategies and compliance frameworks.
 - Evaluate security architecture impacts on connectivity and performance.
 - Establish and maintain enterprise network standards documentation.
 - Participate in architecture review and approve or deny architectural exceptions.
 - Provide technical documentation and recommendations.
- Lifecycle & Financial Alignment:
 - Align network refresh cycles with bond and capital planning.
 - Conduct cost modeling for multi-year licensing.
 - Provide architectural input into RFP development and vendor selection.
- Team Leadership and collaboration:
 - Provide mentoring for network engineers adhering to best practices and maintaining a high level of professionalism.
 - Collaborate across Infrastructure, Resilience, Security, and other domains.
 - Communicate complex architectural models to both technical and non-technical stakeholders.
- General Administrative and Technical Skills and Abilities:
 - Participate in on-call rotation, responding to urgent issues during off hours.
 - Communicate effectively with both technical and non-technical personnel to coordinate activities and deliver clear technical solutions.
 - Work collaboratively with diverse groups, fostering an inclusive environment that respects differences in culture and background.
 - Uphold confidentiality across all job functions, particularly when dealing with sensitive information.
 - Stay informed of District policies, standards, and training related to data quality, privacy, and cybersecurity, ensuring compliance with relevant guidelines for student and staff data.
 - Adhere to Board of Education and Superintendent Policies, as well as department and building procedures.
 - Recognize workplace safety as a priority, following safety protocols, using appropriate safety equipment, and reporting unsafe conditions to supervisors.

REPORTING RELATIONSHIPS & DIRECTION/GUIDANCE:

	POSITION TITLE	JOB CODE
Reports to:	Director, IT Infrastructure & Ops	130901

	POSITION TITLE	# of EMPLOYEES	JOB CODE
Direct reports:	This job has no direct supervisory responsibilities.		

BUDGET AND/OR RESOURCE RESPONSIBILITY:

- Provides technical recommendations and vendor communications that support the development of budgets, RFPs, and requisitions.

PHYSICAL REQUIREMENTS & WORKING CONDITIONS: *The physical demands, work environmental factors and mental functions described below are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodation may be made to enable individuals with disabilities to perform the essential functions.*

PHYSICAL ACTIVITIES:	Amount of Time			
	None	Under 1/3	1/3 to 2/3	Over 2/3
Stand		X		
Walk		X		
Sit				X
Use hands and fingers to handle or feel				X
Reach with hands and arms		X		
Climb or balance		X		
Stoop, kneel, crouch, or crawl		X		
Talk			X	
Hear			X	
Taste	X			
Smell	X			

WEIGHT and FORCE DEMANDS:	Amount of Time			
	None	Under 1/3	1/3 to 2/3	Over 2/3
Up to 10 pounds			X	
Up to 25 pounds			X	
Up to 50 pounds	X			
51 to 100 pounds	X			
More than 100 pounds	X			

MENTAL FUNCTIONS:	Amount of Time			
	None	Under 1/3	1/3 to 2/3	Over 2/3
Compare				X
Analyze				X
Communicate				X
Copy		X		
Coordinate			X	
Instruct		X		
Compute				X
Synthesize		X		
Evaluate				X
Interpersonal Skills			X	
Compile				X
Negotiate			X	

WORK ENVIRONMENT:	Amount of Time			
	None	Under 1/3	1/3 to 2/3	Over 2/3
Wet or humid conditions (non-weather)	X			
Work near moving mechanical parts	X			
Work in high, precarious places	X			
Fumes or airborne particles	X			
Toxic or caustic chemicals	X			
Outdoor weather conditions	X			
Extreme cold (non-weather)	X			
Extreme heat (non-weather)	X			
Risk of electrical shock		X		
Work with explosives	X			
Risk of radiation	X			
Vibration	X			

VISION DEMANDS:	Required
No special vision requirements.	
Close vision (clear vision at 20 inches or less)	X
Distance vision (clear vision at 20 feet or more)	X
Color vision (ability to identify and distinguish colors)	X
Peripheral vision	X
Depth perception	X
Ability to adjust focus	X

NOISE LEVEL:	Exposure Level
Very quiet	
Quiet	
Moderate	X
Loud	
Very Loud	