JOB DESCRIPTION
Network Wireless Engineer

DIVISION: Office of Performance & Information Technology (PIT)	**GRADE:** IT3
DEPARTMENT: IT Infrastructure & Production Services	**WORK DAYS:** Annual
REPORTS TO: Assistant Director (IT Security & Network Services)	**FLSA STATUS:** Exempt
CLASSIFICATION: At-Will	**DATE:** 6/8/2021

Our Mission: Through a caring culture of equity, trust, and collaboration, every student will graduate ready for college, career, and life.

Our Vision: A high-performing school district where students love to learn, educators inspire, families engage, and the community trusts the system.

Our Guiding Principles: Equity in our approach to decision making, **Ethics** to demonstrate our integrity, **Engagement** with our school community, and **Excellence** in everything we do.

POSITION SUMMARY

The Network Wireless Engineer provides a timely response to Service Desk Trouble Tickets and handles related issues. Completes work request activity submitted via Service Request System. Identifies, diagnoses, and resolves wireless network communication issues. In conjunction with Network Administrator and Telephony team identify diagnose, and resolve network and VoIP issues. Performs wireless RF site surveys. Designs and operates a enterprise-class Wi-Fi network spanning multiple buildings. Maintains, optimizes and troubleshoots wireless enterprise network services (data, voice, location, security). Configures, administers, installs, and upgrades network infrastructure components. Remotely administers and maintain complex TCP/IP network using routers and switches. Creates and maintains comprehensive documentation related to the network infrastructure. Recommends, tests, schedules and implements upgrades to network infrastructure.

MINIMUM REQUIREMENTS

EDUCATION:
• Bachelor's degree in Engineering, Information Technology, Computer Science, or related discipline required.

CERTIFICATION/LICENSE:
• Cisco Certified Networking Professional (CCNP), Cisco Certified Network Associate (CCNA), Xirrus Wireless Certification and Certified Information Systems Security Professional (CISSP) a plus, Cisco Wireless Network Administrator (CWNA) preferred.

WORK EXPERIENCE:
• 5 years of experience as a senior level wireless network engineer required.

KNOWLEDGE, SKILLS & ABILITIES

• Strong knowledge of Wi-Fi protocols including all standards of 802:11a/b/g/N/A.c and supporting protocols including DNS, DHCP, RADIUS, TCP/IP, UDP, OSPF, BGP, MPLS, VPN, ACL's, LDAP etc.
• Ability to perform Wifi Surveys using tools such as AirMagnet.
• Must have strong technical and communication skills.
• Demonstrated ability to apply the concepts and commands required to install, configure and troubleshoot IT equipment in a multi-protocol district wide wireless network with centralized and cloud based control.
• Must have the ability to be a liaison with local and field engineering team members and contracted vendors in an effort to maintain immediate response to critical requirements and issues impacting school instruction and testing resulting from monitoring and analysis of current data within the wireless system.
• Maintains familiarity with wireless security and ensure wireless network security is deployed.
• Familiarity with Microsoft Active Directory, DHCP, DNS.

ESSENTIAL DUTIES

• Design, integration, testing, installation, and support of the APS wireless network infrastructure.
• Lead wireless network engineering services in support of Customer WAN, LAN & WLAN data network.
• Perform routed/switched network design activities on HP routers & switches, Xirrus Management System (XMS) & Cisco Meraki cloud management system and wireless access points (WAP) for a large enterprise data network.
• Works with client support technicians to provide solutions for customers' wireless communications requirements and solutions.
• Investigates, designs, plans, and implements physical and logical wireless communications networks.
• Prepares schematics to define and illustrate wireless network design solutions.
• Prepares work orders containing instructions to be used by client support technicians to configure network hardware and software.
• Performs access point/router/switch/network hardware and software upgrades.
• Configures and administers HP switching devices.
• Provides proactive monitoring of network using network management software configuration and troubleshooting (Cisco Meraki Cloud, HP IMC, Flukes OptiView, Trueview, What's Up and SNMP).
• Creates and maintains comprehensive documentation related to the network infrastructure.
• Provides capacity planning for internal and external network connections.
• Required to have prompt, regular attendance in-person and be available to work on-site, in-person during regular business hours and as needed.
• Performs other duties as assigned by an appropriate administrator or their representative.

PHYSICAL ABILITIES AND WORKING CONDITIONS

The physical abilities, working conditions and other conditions of employment listed in this document are representative of, but are not intended to provide an exhaustive list of the requirements for positions in this classification. In the event of an emergency or situation requiring guidance from Federal, State, or local or school district authorities, the requirements of this position may change temporarily or for the school year to best serve the needs of our students.

Vision: Ability to read small print and view a computer screen for prolonged periods.
Hearing: Ability to tolerate exposure to noisy conditions.
Speech: Ability to be understood in face-to-face communications, to speak with a level of proficiency and volume to be understood over a telephone or computer.

Upper Body Mobility: Ability to use hands to grasp, and manipulate small objects; manipulate fingers, twist and bend at wrist and elbow; extend arms to reach outward and upward; use hands and arms to lift objects; turn, raise, and lower head.

Strength: Ability to lift, push, pull and/or carry objects which weigh as much as 5 or more pounds on a frequent basis. Incumbent may be required to physically restrain parties involved in a conflict.

Environmental Requirements: Ability to encounter constant work interruptions; work cooperatively with others; work independently; work indoors.

Mental Requirements: Ability to read, write, understand, interpret and apply information at a moderately complex level essential for successful job performance; math skills at a high school proficiency level; judgement and the ability to process information quickly; learn quickly and follow verbal procedures and standards; give verbal instruction; rank tasks in order of importance; copy, compare, compile and coordinate information and records. Understand how to manage stress.

Remote Work Requirements:

Additional Work Conditions & Physical Abilities: Ability to be flexible and adapt as needed between various in-person working environments.

The Atlanta Public School System does not discriminate on the basis of race, color, religion, sex,citizenship, ethnic or national origin, age, disability, medical status, military status, veteran status, marital status, sexual orientation, gender identity or expression, genetic information, ancestry, or any legally protected status in any of its employment practices, educational programs, services or activities. Reasonable accommodations may be made to enable individuals with disabilities to perform essential duties.

This job description is intended to accurately reflect the duties, responsibilities and requirements of the position. It is not intended to be and should not be construed as an all-inclusive list of all the responsibilities, skills, or working conditions associated with the position. Management and administration reserves the right to modify, add, or remove duties and assign other duties as necessary.