

Network Design Technician IV

Position Details

Class Code: 1568

Job Family: Information Systems

Classification: Support Professional

Terms of Employment: Pay Grade 61 on the Support Professional Salary Schedule

FLSA STATUS: NON-EXEMPT

Position Summary

Under general supervision, develops designs, layouts and specifications, and reviews and monitors construction activities related to low-voltage data communications systems and infrastructure.

Essential Duties and Responsibilities

The list of Essential Duties and Responsibilities is not exhaustive and may be supplemented.

1. Maintains state-of-the-art competency in related network communications infrastructure technologies and processes as it relates to design and construction activities.
2. Leads the development of standard designs, construction specifications, and requirements as they relate to low-voltage data communications infrastructure systems, equipment, spaces, and pathways.
3. Performs design review and develops redlines, acceptance, and notice of out-of-compliance documents and related documentation.
4. Performs on-site inspections of in-progress construction activities for conformance-to-plan review.
5. Supervises assigned staff involved in projects involving low-voltage, data communications construction and integration.
6. Provides guidance and assistance to peers and lower level technicians.

7. Performs field support at any Clark County School District schools, offices, or other locations, as directed.
 8. Performs research and development tasks with guidance and assistance from specialists.
 9. Provides on-call support.
 10. Conforms to safety standards, as prescribed.
 11. Performs other tasks related to the position, as assigned.
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Distinguishing Characteristics

Involves independent research, analysis, development of designs, specifications and layouts, and plans review and red-line development.

Knowledge, Skills, and Abilities (Position Expectations)

1. Knowledge of low-voltage data communications infrastructure specifications and requirements.
2. Knowledge of construction processes and activities.
3. Knowledge of cabling, termination, installation, troubleshooting, and repair, including CAT5, CAT6, and CAT6A technologies.
4. Knowledge of fiber optic cabling, termination, installation, and repair, including single mode and multimode.
5. Knowledge of national and local building codes (i.e., National Electrical Code (NEC), International Building Code (IBC), Institute of Electrical and Electronics Engineering-National Electrical Safety Code (IEEE-NESC), etc.), Telecommunications Industry Association (TIA) standards and Building Industry Consulting Services International (BiCSi) best practices as they relate to low-voltage data communications designs, specifications, testing, and installations.
6. Ability to review, understand, and critique construction plans, requirements, shop-drawings, etc.
7. Ability to discuss, understand, and explain technical issues with non-technical customers.
8. Ability to plan complex network communications activities.
9. Ability to read and interpret complex technical documentation in English.
10. Ability to create, edit, and maintain technical documentation in English.
11. Ability to make technical presentations to District staff and administrators.
12. Ability to recognize and report hazards and apply safe work methods.

13. Possess physical and mental stamina commensurate with the responsibilities of the position.

THE OPERATING SYSTEM(S), HARDWARE AND SOFTWARE APPLICATION(S), PROGRAMMING LANGUAGE(S), ETC. REQUIRED ARE CONTINGENT UPON THE CURRENT POSITION VACANCY, ADVERTISEMENT, OR ASSIGNMENT.

Position Requirements

Education, Training, and Experience

High school graduation or other equivalent (i.e., General Educational Development (GED), foreign equivalency, etc.); plus, four (4) years of work experience in an Information Technology (IT)-related technical support field and five (5) additional years of professional work experience providing design, review, and inspection services, support, and troubleshooting for low-voltage, data communications systems, hardware, cabling, spaces, pathways, and related technologies; or,

Associate's degree from an accredited college or university (or two (2) years of college) with a major area of study in Information Technology (IT)-related areas such as Management Information Systems (MIS), Computer Science, Electrical Engineering, etc.; plus, two (2) years of work experience in an Information Technology (IT)-related technical support field and five (5) additional years of professional work experience providing design, review, and inspection services, support, and troubleshooting for low-voltage, data communications systems, hardware, cabling, spaces, pathways, and related technologies; or,

Bachelor's degree from an accredited college or university (or four (4) years of college) with a major area of study in Information Technology (IT)-related areas such as Management Information Systems (MIS), Computer Science, Electrical Engineering, etc.; and, five (5) years of professional work experience providing design, review, and inspection services, support, and troubleshooting for low-voltage, data communications systems, hardware, cabling, spaces, pathways, and related technologies.

Up to two (2) years of Construction Management training and/or experience may be substituted for equivalent years of Information Technology training or experience.

Licenses and Certifications

1. A valid driver's license that allows the applicant/employee to legally operate a motor vehicle in Nevada. License must be maintained for the duration of the assignment.
2. Copy of driving history (copy must be dated within six (6) months from the date printed) issued by the Department of Motor Vehicles at time of application or Qualified Selection Pool (QSP) placement and at time of interview prior to final selection.

Preferred Qualifications

1. Industry certification in the area of low-voltage, data communications infrastructure design such as Building Industry Consulting Services International (BiCSi) Registered Communications Distribution Designer (RCDD).
 2. Experience leading large and complex network-related technology design and construction projects.
 3. Industry certification in project management, such as Project management Institute (PMI) Project Management Professional (PMP).
 4. Supervisory experience.
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Document(s) Required at Time of Application

1. High school transcript or other equivalent (i.e., GED, foreign equivalency, etc.).
 2. College transcript(s), if applicable.
 3. A valid driver's license that allows the applicant/employee to legally operate a motor vehicle in Nevada.
 4. Current copy of driving history (copy must be dated within six (6) months from the date printed) issued by the Department of Motor Vehicle.
 5. Specific documented evidence of training and experience to satisfy qualifications.
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Examples of Assigned Work Areas

Clark County School District Technology & Information Systems Services (TISS) Department and other locations; air conditioned and non-air conditioned school equipment rooms; travel to and from schools and other District office settings; rough, outside construction areas.

Work Environment

Strength

Sedentary to medium – exert force 20-50 lbs., occasionally; 10-25 lbs., frequently; or up to 10 lbs., constantly.

Physical Demand

Frequent sitting, standing, walking, pushing, pulling, stooping, kneeling, crouching, reaching, handling, and repetitive fine motor activities. Hearing and speech to communicate in person, via video conference and computers, or over the telephone. Mobility to work in a typical office setting and use standard office equipment. Stamina to remain seated and to maintain concentration for an extended period of time. Vision: Frequent near acuity, occasional far acuity, and color vision. Vision to read printed materials and online, a Video Display Terminal (VDT) screen, and other monitoring devices.

Environmental Conditions

Climate-controlled office setting with temperatures ranging from mild to moderate cold/heat. Exposure to noise levels ranging from moderate to loud for occasional to frequent time periods.

Hazards

Frequent electrical shock hazards. Furniture, office equipment, communicable diseases, chemicals and fumes (as related to specific assignment), and power/hand-operated equipment and machinery (as related to specific assignment).

Examples of Equipment/Supplies Used to Perform Tasks

District-issued/personal vehicle, various computers, printers, modems, telephones, fax machines, drills, punch-down tools, digital multi-meters, laser communication devices, data system and communications test equipment, and hand and power tools used in the installation and repair of technology equipment, personal protective equipment (i.e., hard-hats, safety glasses, steel-toed footwear, etc.).

AA/EOE Statement

This employer does not knowingly discriminate on the basis of race, color, religion, sex, sexual orientation, gender identity or expression, age, disability, or national origin.

Job Revision Information

- Revised: 10/31/19
- Created: 10/31/19