



CLASSIFICATION NO. 614
Established: 9/20
FLSA: Non-Exempt
EEO: 7

TELECOMMUNICATIONS CONSTRUCTION TECHNICIAN, SENIOR

CLASS CHARACTERISTICS

Under direction, to plan and organize the work of other technicians; to lead the work to install, construct, repair, and maintain aerial and underground telecommunication systems; and to do other work as required.

DISTINGUISHING CHARACTERISTICS

The Technology Services Department provides computing services to County departments and other public and private agencies. The department is made up of four Technology Services Department Divisions, including Administrative Support, Enterprise Services, Application Support, and Communication Services.

The Telecommunications Construction Technician, Senior performs coordination and lead work of other Technicians who are installing, constructing, repairing, and maintaining aerial and underground telecommunications systems. The Telecommunications Construction Technician, Senior also assists in long ranging planning and design of facilities, as well as provides subject matter expertise for the lower level technicians.

This classification is distinguished from the Telecommunications Construction Technician as the Technician does not provide lead work to other Technicians. The classification is also distinguished from the Electronics Technician series which installs, maintains, tests, and repairs various electronic equipment including telephone, intrusion, and other equipment, but not aerial and underground telecommunications.

TYPICAL TASKS

Duties may include but are not limited to the following:

1. Leads the work of Telecommunication Construction Technicians engaged in installing, maintaining, and repairing aerial / underground fiber optic & copper cable, broadband services, telephone lines, special circuits, subscriber carrier systems, cable terminals, protection devices, drop wires, pedestals, poles, towers, down guys and vaults.
2. Installs, maintains, and repairs aerial / underground fiber optic & copper cable, broadband services, telephone lines, special circuits, subscriber carrier systems, cable terminals, protection devices, drop wires, pedestals, poles, towers, down guys and vaults; acts as the subject matter expert and resource for telecommunication construction technicians; provides specialized training in all aspects of outside plant construction and monitors the work of technicians.

3. Implements telecommunications standards; prepares detailed documents, drawings, network charts and specifications; develops and documents operational procedures; completes installation and repair related forms; updates computerized inventory records; designs new methods and procedures for accomplishing work; prepares services estimates; acts as the main contact for selected vendors.
4. Assists in long range planning and design of aerial and underground telecommunication facilities; analyzes current and projected requirements; conducts research on new systems and technologies; develops cost/benefit analysis; recommends the most cost effective solutions.
5. Assists in telecommunication project management, coordination and scheduling; assigns project tasks to project team members; Problem solves and builds consensus with management, users, vendors and customers.
6. Performs communications cable splicing including fiber and copper; performs underground utility locates; installs and maintains point to point / multi-point wireless systems.
7. Fields existing and proposed utility installations for The National Electric Safety Code (NESC) design standards, specifications, and violations.
8. Tests and diagnoses issues with fiber optic, copper cables, broadband services, telephone lines, special circuits, subscriber carrier systems, cable terminals, protection devices, and wireless systems.
9. Interprets underground and aerial telecom facilities, traffic control plans, and safety plans in records, maps, and real time field inspections; reviews and revises construction cabling plans for compliance with National, State, and County regulations and codes; interprets and utilizes various code and regulation resources.
10. Completes installation and repair-related forms and reports; updates computerized inventory records; responds to requests for information or service on equipment.
11. Drives diesel or gasoline powered equipment to, from, and on the jobsite; operates equipment to install aerial or buried cable.
12. Supports Technology Services areas with telecommunications, networking, security cameras, building wiring, and two-way radio projects.

REQUIRED KNOWLEDGE AND SKILLS

Thorough knowledge of: Principles and practices of telecommunications outside plant industry standards, practices, architecture, configuration, design, terminology, procedures, tools, and materials utilized in fiber and copper line construction work; aerial and/or underground cable installation; project management techniques and principles of lead work supervision.

Skill to: Communicate effectively, both orally and in writing; use tools and test equipment to repair, install and service various types of electronic equipment; install and construct equipment from blueprint layouts and symbols; install and maintain a wide array of fiber optic and copper cables, broadband services, telephone lines, special circuits, subscriber carrier systems, cable terminals, protection devices, drop wires, pedestals, poles, towers, down guys and vaults; field

existing and proposed utility installations for NESC design standards, specifications, and violations; review and revise construction cabling plans for compliance; apply mathematic calculations for use in drilling and pole sizing, calculating material and hardware and assembling equipment; establish and maintain effective working relationships with County employees, vendors, suppliers, contractors, and customers; perform safety checks and tests on vehicles, equipment, harnesses, fall arrest devices, and confined space environments. .

WORKING CONDITIONS

Within the Communications Services Division of Technology Services, duties require frequent to continuous standing, walking, squatting, kneeling, crawling, bending, twisting, balancing, climbing, overhead reaching, repetitive grasping and fine motor control, and accurate color perception. The ability to lift up to 80 pounds, carry 30 pounds, push 50 pounds, and pull 90 pounds. Duties also involve exposure to electrical hazards, confined spaces (vaults/tunnels), loud noises, vibration, exhaust fumes and dust, moving traffic, slippery and/or uneven surfaces, working at heights, and adverse weather conditions.

MINIMUM QUALIFICATIONS

Minimum qualifications are used as a guide for establishing the minimum experience, education, licensure, and/or certifications required for employment in the classification. The following minimum qualifications are established for this classification. Additional minimum qualifications and special conditions may apply to a specific position within this classification and will be stated on the job announcement.

Experience: A minimum of five (5) years of related experience that would provide the required knowledge and skills to perform the responsibilities of this position.

Licenses/Certifications: None Required.

PRE-EMPLOYMENT REQUIREMENTS

Must successfully pass a criminal history check which may include national or state fingerprint records check.

Employment is contingent upon passing a post-offer physical assessment. Accommodation requests will be reviewed on an individual basis in compliance with State and Federal legislation.

Must pass a pre-employment drug test (DOT Regulations for CDL).

Driving is required for County business on a regular basis or to accomplish work. Incumbents must possess a valid driver's license, and possess and maintain an acceptable driving record throughout the course of employment.

POST-EMPLOYMENT REQUIREMENTS

Within one (1) year of hire: must possess valid Class A Commercial Driver's License (CDL). Incumbents must possess and maintain an acceptable driving record throughout the course of employment.