



## JOB DESCRIPTION

**Job Title:** Outside Plant Engineering Technician  
**Department:** Engineering  
**FLSA Status:** Non-Exempt  
**Reports To:** Engineering Supervisor  
**Location:** Willcox / Safford  
**Approved By:** Heath Bowen  
**Approved Date:** 05/24/2022

### GENERAL PURPOSE OF JOB

The Outside Plant Engineering Technician will design fiber optic and copper networks that will provide broadband services to our members and customers. These tasks include research, planning, designing, permitting, estimating, budgeting, and tracking fiber optic expansion projects. This position is responsible for preparing and interpreting engineering plans, drawings, and reports as well as planning FTTH networks for existing and new serving areas for various construction and maintenance needs such as but not limited to new construction and maintaining legacy copper facilities. This position will work on mapping software designing layouts/plans and procuring proper permits and right of ways along with coordination with in-house construction and outside contractors.

### ESSENTIAL DUTIES AND RESPONSIBILITIES

*(May include but are not limited to the following. Other duties may be assigned.)*

- Actively encourages teamwork, open communication, and cooperative interactions by promoting a positive work environment that reflects the company's mission, values and management goals.
- Supports management in the detailed network design, deployment, and administration of Telco's network.
- Provides recommendations on planning and budgeting to meet company objectives.
- Fiber-optic construction projects (to the home, business, cell-site, node, etc.) including staking sheets/construction drawings and mapping.
- Ensures all work is done under RUS specifications and drawings (515A, 515B, 515C and 515D).
- Coordinate with local, state, and federal government entities on projects as necessary (road construction projects, permits, mapping, etc)
- Provides cost estimates to Telco's sales, marketing, or management for new customer opportunities.
- Responsible for detailed staking sheets for all construction projects, including maintaining and verifying tabulation of staking sheets with contractors.
- Responsible for creating close out documentation for all construction projects with accounting to provide accurate electronic mapping data and customer location counts for federal and state reporting.
- Responsible for engineering and assigning new counts for expansion projects and cutovers.
- Responsible for generating status reports, tracking work orders, managing budgets, reviewing invoices, and analyzing data to ensure projects are managed efficiently and cost effectively.
- Responsible for inspection of construction and resolving any problems with the projects.

### EDUCATION and EXPERIENCE

High school diploma or General Educational Development (GED) certificate required. Combination of related work experience and/or training in related field equal to a total of 3 years is desired but not essential. Knowledge of outside Plant Construction practices is desirable but not essential.

### LANGUAGE SKILLS

Ability to read and interpret documents such as safety rules, operating and maintenance instructions, procedure manuals, technical procedures, or governmental regulations. Ability to write routine reports, business correspondence and technical procedures. Ability to effectively present information and respond to questions.

**MATHEMATICAL SKILLS**

Ability to add and subtract, multiply, and divide in all units of measure, using whole numbers, common fractions, and decimals. Ability to compute rates, ratios and percent's and to draw and interpret graphs.

**REASONING ABILITY**

Ability to define problems, collect data, establish facts, and draw valid conclusions. Ability to interpret an extensive variety of technical instructions in mathematical or diagram form and deal with several concrete variables in standardized situations.

**COMPUTER OPERATIONS**

Proficient computer operations (operating systems and intermediate software packages, word processing, spreadsheet, graphics, etc.). Experience with mapping software is desirable but not essential.

**PLANNING/ORGANIZATION**

Must be able to handle multiple projects simultaneously, prioritize, organize, and coordinate assignments.

**CERTIFICATES, LICENSES, REGISTRATIONS**

Valid driver's license issued by the state in which the employee resides.

**PHYSICAL/ENVIRONMENTAL DEMANDS**

	Amount of Time			
	None	Under 1/3	1/3 to 2/3	Over 2/3
Stand			XXX	
Walk			XXX	
Sit			XXX	
Use hands to feel				XXX
Reach with hands and arms				XXX
Climb or balance		XXX		
Stoop, kneel, crouch, or crawl		XXX		
Push or pull		XXX		
Talk or hear				XXX
Drive		XXX		
Keyboarding				XXX

**WEIGHT - Lifting and/or carrying**

	None	Under 1/3	1/3 to 2/3	Over 2/3
Up to 10 pounds			XXX	
Up to 25 pounds			XXX	
Up to 50 pounds			XXX	
Up to 100 pounds		XXX		
More than 100 pounds		XXX		

**WORK ENVIRONMENT**

	None	Under 1/3	1/3 to 2/3	Over 2/3
Work near moving mechanical parts		XXX		
Fumes or airborne particles		XXX		
Toxic or caustic chemicals		XXX		
Working above ground level		XXX		
Working below ground level		XXX		
Outdoor weather conditions			XXX	
Risk of electrical shock			XXX	

**WORKING CONDITIONS**

Well-lighted, heated and/or air-conditioned indoor office/production setting with adequate ventilation.

**PHYSICAL ACTIVITY**

Light physical activity performing non-strenuous daily activities of a productive/technical nature.

**MANUAL DEXTERITY**

Manual dexterity sufficient to reach/handle items and operate a keyboard.

**VISION** *(Any or all will be required to perform the functions of this position.)*

- Close Vision (clear vision at 20 inches or less)
- Distance vision (clear vision at 20 feet or more)
- Color vision (ability to identify and distinguish colors of telephone cable and fiber color codes)
- Peripheral vision (ability to observe an area that can be seen up and down or to the left and right while eyes are fixed on a given point)
- Depth perception (three-dimensional vision, ability to judge distances and spatial relationships)
- Ability to adjust focus (ability to adjust the eye to bring an object into sharp focus)

**NOISE**

Moderate noise levels (i.e.: business office with computers and printers, light traffic).

**WORK SCHEDULE/HOURS**

Regular (40 hours per week) and on a call-out or on-call basis subject to company policies. It is also possible that this job will be required to work fewer or more hours during any given week.

**TRAVEL**

Minimal overnight travel (up to 10%) by land and/or air. Required to be available to travel, by company vehicle, to various property locations and job sites.