

## **COMMUNICATIONS DESIGN SPECIALIST I**

### **PURPOSE AND NATURE OF WORK**

Position is responsible for network planning and engineering of all broadband networks, project management of major engineering initiatives, and generating detailed engineering documentation to support the installation, configuration, and ongoing operations of the network. The Design Specialist I differs from the Design Specialist II in that the latter works with grant applications, develops design and material standards, and designs non-standard systems. Incumbents work under the general direction of the Communications Outside Plant Supervisor and have no supervisory responsibilities.

**ILLUSTRATIVE EXAMPLES OF WORK** (Note: These examples are intended only to illustrate the various types of work performed by incumbents in this class. All of the duties performed by any one incumbent may not be listed, nor does any incumbent necessarily perform all of these duties.)

- Designs infrastructure projects, using tools such as Auto-Cad, ArcGIS, Enghouse, and Netdesigner
- Handles permitting processes for LUS Fiber projects
- Supports customer service orders and serviceability requests, including cost projections
- Reviews department processes and procedures for efficiency and makes recommendations to senior management for improvements
- Participates in departmental budget discussions and provides guidance for cost savings.
- Reviews departmental tools to ensure productivity
- Researches new fiber mapping systems and makes recommendations to senior management
- Provides updated system cable maps to all departments upon request
- Creates and verifies work orders in alignment with budget requirements
- Approves changes from the original work order including as-built changes, fiber assignment changes, and material changes
- Attends pre-construction and joint use utility meetings to ensure company plans meet local, city, and power company requirements
- Provide support for maintenance and troubleshooting of the OSP fiber optic network
- Participate in discussions and planning of network expansion to ensure efficient use of capital expenditures
- Participate in discussions and testing of new equipment and material
- Performs related work as required

### **NECESSARY KNOWLEDGE, ABILITIES AND SKILLS**

Knowledge of and ability to apply the following appropriate to the level of work in a communications system providing telephone, television and data communications to homes, government, and businesses:

- Infrastructure design
- Construction plan review
- Fiber To The Home Industry standard service delivery methods and related terminology
- Ability to form and maintain effective working relationships with other LUS Fiber personnel, customers, elected officials, and general public
- Ability to communicate clearly, verbally and in writing.

## **DESIRABLE QUALIFICATIONS**

Bachelor of Science or Applied Science in Computer Science, Electrical Engineering, Telecommunications Engineering and experience in the in the telecommunications industry, specifically with OSP fiber optics.