

Outside Plant Engineer I

Job Summary and Objectives

The Outside Plant Engineer I is responsible for the design, build, and maintenance of fiber transport, distribution, and access network. As the subject matter expert, the employee will focus on supporting the delivery of next generation Triple Play services and GPON TAP design including Carrier Ethernet. The employee will be expected to utilize CAD Applications, GIS databases and other relevant applications to complete projects. The employee will complete proper documentation, obtain appropriate local and state permits and maintain project records in accordance with company policies, procedures and quality standards. This position will have the opportunity to assist with long-term strategic planning.

Responsibilities and Essential Job Functions

- A. Document resolution for future reference.
- B. Assist the Outside Plant Engineer II with technical support to field technicians during the placement phase of fiber network projects.
- C. Translate customer requests into feasible solutions and work with teammates and cross-functional teams to design, plan, communicate, and implement those solutions.
- D. Be responsible for local and state permits as they relate to projects and tasks.
- E. Promotes and maintains a safe working environment, observes all safety rules, and supports the Mission Statement and Core Values in carrying out the responsibilities of the position.
- F. Supports and keeps abreast of bylaws, guidelines, policies/procedures and philosophies of the parent cooperative in an effort to effectively serve and support members and subscribers.
- G. Performs other duties as assigned in order to fulfill the objectives of Co-Mo Connect and this position.

These statements are intended to describe the general nature and level of work being performed by people assigned to this position. This is not intended to be construed as an exhaustive list of all responsibilities and tasks that may be assigned.

Relationships

Reports to: Outside Plant Manager

Internal: Co-Mo Connect employees and other departments within the parent cooperative as needed.

External: Maintains great relations with vendors, contractors, subscribers, customers, and the general public in carrying out the responsibilities of this position we needed.

Physical Requirements

- Hand-eye coordination. Driving a commercial motor vehicle requires the controlled use of multiple limbs on the basis of what a person observes. Federal regulations require drivers to have normal use of their arms and legs.
- Hearing ability. Drivers need good hearing. Federal regulations require the ability to hear a forced whisper in one ear at five feet (with or without the use of a hearing aid).
- Patience. Because of possible traffic congestion Drivers are put in stressful situations and must be able to continue to calmly operate their CMV.
- Physical health. Federal regulations do not allow people to become a Driver if they have a medical condition that may interfere with their operation of a CMV, such as high blood pressure or epilepsy.
- Visual ability. Drivers must be able to pass vision tests. Federal regulations require at least 20/40 vision with a 70-degree field of vision in each eye, and the ability to distinguish colors on a traffic light.
- While performing the duties of this job, the employee is frequently required to sit for long periods of time, stand, walk, use hands to fingers, handle, or feel and reach with hands and arms, and talk or hear, see and inspect, and bend. The employee must lift and/or move up to 25 pounds.

Essential Mental Requirements

- Demonstrated past and present ability to safely operate a Commercial Motor Vehicle
- Can read, understand, hear, and apply written and spoken directions
- Ability to work in a constant state of alertness and safe manner
- Ability to work in an unfatigued state
- Ability to accurately gauge lengths of time and distance
- Ability to quickly store and recall instructions in one's short term memory
- Ability to concentrate
- Ability to cope with sudden changes in surrounding and/or emergency situations and/or alarms
- Demonstrated caring, committed and concerned attitude about safety
- Ability to rapidly respond to stimuli
- Possess fast reflexes and unimpaired coordination
- Ability to perform tasks involving high levels of cognitive function and judgment
- Not mentally or physically impaired from any cause that can adversely affect ability to safely and competently perform the DOT regulated functions
- Ability to take prompt and appropriate response to operating conditions
- Not mentally or physically impaired from any cause that can adversely affect ability to safely and competently perform the DOT regulated functions

Qualifications

The requirements listed below are representative of the knowledge, skills, and abilities required to perform the necessary functions of this position.

KNOWLEDGE, SKILLS, AND ABILITIES

- Ability to understand FTTH passive network design (TAP) and its concepts
- Cabling standards such as Passive Fiber Optic cables and structured cables (BICSI etc.), fiber optic cable deployment schemes such as color coding etc.
- Knowledge of passive optical components and concepts such as: FDMS, types of fiber optic cable, connector types, splitters types, link losses and link budget, bend radius etc.
- Knowledge of fiber testing and quality control techniques
- Must be proficient with CAD applications, GIS databases and the Microsoft Office applications
- Accomplished and proven critical thinking skills, strong analytical thought process and adept business acumen.
- Effectively able to manage multiple projects, diverse team members and competing priorities
- Strategic critical thinking in approach to problem solving, issue resolution and solution development drawing upon acute business acumen and perspective gained from a wide range of experience.
- Ability to effectively summarize and communicate complex problems and analytics to highest level of organization and public.
- Advanced / Expert in data query, extraction, and normalizing. Extremely adept and efficient at incorporating and utilizing data in a variety of reporting tools
- Ability to communicate at executive level and influence effectively both up / down the chain of command, and cross functionally.
- Have good knowledge of Rural Utilities Service (RUS) unit meanings to place on workorders.
- Have good knowledge of National Electrical Safety Code (NESC) standards; mostly related to communications cable placement.
- Possesses or can possess a Missouri issued Public Notary License

EDUCATION AND EXPERIENCE

- Understanding of OSP/ISP Fiber UG or OH construction.
- Experience with Fiber Optic Cable installation and fiber splicing.
- Experience with transport and access technologies including Carrier Ethernet and GPON.
- Knowledge of construction industry, including project supervision, construction regulations, document review, cost estimating as well as technical skills and knowledge of construction methods.
- Knowledge of construction project administration, contract compliance monitoring and claims processing and construction methods.

- Candidates must be familiar with OSP Engineering standards, practices, and construction methods.
- Advanced knowledge of Public and Private right of way project deployment, including regulatory and permitting processes
- Ability to read and understand blueprints along with civil inside & outside plant construction methods. infrastructure design, procurement, build and testing of the communication network.

EDUCATION AND EXPERIENCE Associate's Degree in Telecom/related field with 1-3+ years of fiber Engineering design experience, or a minimum of five (5) years of construction experience combined with 1-3+ years of fiber Engineering design experience, telecom experience preferred.

LANGUAGE AND PRESENTATION SKILLS Ability to read, analyze and interpret technical journals, financial reports, and legal documents. Capability to appropriately respond to complex inquiries from executive management, complaints from customers (both internal and external), regulatory agencies, or members of community. Effectively create presentations and communicate to a wide audience including council, citizens and executive level management

REASONING ABILITY Skillful capabilities to identify root cause of problems, transform data into information, draw insightful defensible conclusions, and adapt to changing environment by overcoming obstacles. Ability to interpret an extensive variety of complicated technical instructions (mathematical or diagram form) and communicate / teach meaning and impact.

CERTIFICATES, LICENSES, REGISTRATIONS Must have or be able to obtain a Class E chauffeur's license within 90 days of start date.

Federal Motor Carrier Safety Administration (FMCSA) Safety Rule

Requires mandatory reporting by Drivers of off – duty DUI and Drug Offense Arrest and/or Conviction. In accordance with the authority granted to the Company by the DOT in 49 CFR 382.111 to imposed other requirements to prevent alcohol misuse by Drivers, it is mandatory that Drivers disclose to their supervisor by the end of the business day arrest and/or convictions for all alcohol and/or drug related offenses committed while operating any motor vehicle. This will allow the Company to immediately remove from safety sensitive functions, Drivers who have engaged in off – duty unsafe behavior related to alcohol or drug misuse (which is directly related to their safety sensitive functions performed for the Company) to make determinations as follows: 1) if the Driver is fit for duty; 2) if the Driver is still qualified under DOT regulations to operate a CMV for the Company; 3) if the Driver is still insurable at standard rates under the Company fleet policy; and 4) if the Driver can still meet the essential job functions for the position of Driver. It is an Essential Job Function of every DOT regulated Driver that they be qualified and licensed to operate a CMV without the use of a judicially ordered interlocking device, or similar device as part of a diversion or conviction for an alcohol related offence.

Working Conditions

The work environment characteristics described here are representative of those an employee would encounter while performing the essential functions of this job. Normal office environment with moderate levels of noise. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions. Must be willing to work outside during any weather condition. Outside work would normally consist of but is not limited to walking out easements, mainline builds or new Fiber Line Extension's (FLE).

The Outside Plant Engineer I is an exempt position.

Co-Mo Electric Cooperative, Inc. is an Equal Opportunity Employer and employment is at-will.

Reviewed by Supervisor

Printed Name: _____

Signature: _____

Date: _____

Reviewed by Employee

Printed Name: _____

Signature: _____

Date: _____