INTEGRITY INTO EVERYTHING

Title: GIS Mapping Technician III
Classification: Non-exempt,
Department: Energy/Telcom
Reports to: Department Supervisor/Project Manager

Position Summary: The GIS Mapping Technician III will work at the intersection of data analysis, programming, and cartography, which will include analyzing spatial data through mapping software and designing digital maps with geographic data and various other data sets. This role will work collaboratively with a variety of departments for a variety of tasks related to Data Analysis, Design, and Project Management.

Essential Duties and Responsibilities:

- Applies GIS principles to support the mission of broadband coverage for our clients and to create broadband coverage maps using data from the Federal Communications Commission, U.S. Department of Agriculture, U.S. Census Bureau, various local broadband layers (State, County, Municipalities), and Internet Service Providers.
- Designs and produces maps showing the spatial distribution of various kinds of data; including FCC broadband data, client proprietary GIS files, government data and infrastructure, socioeconomic data, and network designs.
- Performs geospatial data analysis, mining, and cleaning in various platforms for highly technical analysis.
- Creates "shapefiles" to merge topographical data with external data.
- Converts physical maps into a digital form for online distribution, visualization, and manipulation to assist in key decision-making efforts for our public and private clients.
- Manages a digital library of geographic maps in various file types. This includes general data governance, integrity, and documentation.
- Supports the GIS data requirements for feasibility studies, broadband consulting project, and broadband funding applications, including, but not limited to developing visual resources to educate policymakers, citizens, and other stakeholders on issues around broadband access, adoption, and affordability.
- Interfaces with vendors, educational institutions, and other stakeholders to analyze data and publish visualizations to share with end-users, communities, government entities, and service providers.
- Researches new and emerging geospatial technologies and techniques to provide enhanced services to our diverse clientele.
- May be required to perform other duties as requested, directed, or assigned.

Education and Experience:

- Minimum high school or equivalent education with an associate or bachelor's degree Computer Science, Geography, Geoscience, Surveying, Engineering, or a related field is preferred.

- Minimum of 4-5 years of experience with Esri, ArcPro, AGOL, Enterprise or other GIS related software and spatial databases is required.
- Previous experience in telecommunications is preferred.
- Preferred experiences and/or strong aptitude for 1) environmental geospatial analyses, and 2) data science method including Python or other equivalent programming languages (of note, these are not required, but desirable).

Physical, Mental and Visual Demands:
Flow of work involves normal mental and visual attention along with manual coordination much of the time. Physical demands require occasionally lifting over 25 pounds. While performing the duties of this job, the employee is occasionally required to stand; walk; sit; use hands to finger, handle, or feel objects, tools, or controls; reach with hands and arms; climb stairs; balance; stoop, kneel, crouch; talk or hear; taste or smell. Specific vision abilities required by the job include close vision, distance vision, color vision, peripheral vision, depth perception, and the ability to adjust focus.

Work Location:
This position is remote but may be expected to travel 10% of the time.