**POSITION PROFILE**

The Data Scientist leads efforts to effectively visualize and communicate utility data to accomplish the objectives of projects as well as creates novel data visualization techniques. This includes clear oral and written report on findings when necessary will build the infrastructure required for optimal extraction, transformation, and loading (ETL) of data from a wide variety of sources into a centralized data repository. The Data Scientist will also provide usable data for analysis and make data accessible to optimize business performance. This opportunity is a part of our new wholly owned subsidiary of Rappahannock Electric Cooperative (REC), BrilliT.

**ROLE AND RESPONSIBILITIES**

- Promote value-added data driven decision-making by providing innovative data automation and advanced analytic solutions for all areas of the business.
- Ensure the Cooperative receives maximum benefits from the centralized data hub by Analyzing large amounts of information to discover trends and patterns of paramount value from as many aspects of the Cooperative’s daily operations and processes as possible.
- Integrate data from multiple data sets, analyze and interpret complex data sets and make findings relevant and actionable for both internal and external stakeholders.
- Execute predictive modeling, AI, and machine learning: supervised and unsupervised.
- Test, model, validate, and deploy predictive analytics in support of business operations.
- Combine models through ensemble modeling.
- Leads efforts using data science methodologies (spanning from basic statistics to machine learning) to analyze data from various business units. Disseminates data science insights and/or techniques to members through creation of tools and resources easily usable by cooperatives.
- Other duties as assigned.

**QUALIFICATIONS AND EDUCATION REQUIREMENTS**

- Master’s degree in a rigorous quantitative, technical, or scientific subject including data science, business analytics, mathematics, statistics, computer science, engineering or related field required. Professional certifications in advanced analytics or data science preferred. Additional training in research techniques, technical writing, or fundamentals of electric distribution operations are a plus. Experience in Microsoft Azure cloud platform and fundamentals of electric distribution utilities is desired. Must have five (5) years of related experience.

This position focuses on advanced analytics and is responsible for helping the organization gain operational insights by leveraging data science methodologies and process workflows. Must have deep technical knowledge of statistical methods and algorithms ranging from linear and logistic regression, decision trees, k-means clustering, SVD, decision trees, naïve bayes, Arima, agent-based modeling. Must understand analytic project lifecycle and use case evaluation.

Understanding of and ability to use scripting language (SQL) and programming languages for predictive analytics modeling (Python or R). Knowledge of data modeling for Power BI visualization desired. Knowledge of Azure ML Studio desired.

Must have the ability to Test, model, validate, and deploy predictive analytics in support of business operations. Must have the ability to execute predictive modeling, AI, and machine learning: supervised and unsupervised. Must have ability to work with large amounts of structured and unstructured data. Must have the ability to combine models through model ensembles. Must be able to lead large analytic projects (use cases) as technical lead. Determine Project intake prioritization, idea generation, requirements, scope, deliverable, and analytic project lifecycle, guiding each phase of the project.

Must be able to translate business requirements into data requirements necessary for Analytic solutions. Must maintain strong attention to detail. Perform other duties as assigned.

Most of the work will be performed at the Fredericksburg office or in remote location. Will require periodic travel throughout REC's territory. Occasional travel for seminars and training will be required with the possibility of overnight travel.

**HOW TO APPLY:**

Internal Applicants: Interested parties should submit a resume/cover letter to rechr@myrec.coop.

External Applicants: Use our [https://www.myrec.coop/careers](https://www.myrec.coop/careers) to apply for the opportunity. Please indicate the Job Posting ID #03BT03222022

**Deadline:** Open until filled

*The above statements are intended to describe the general nature and level of work being performed by people assigned to this classification. They are not intended to be construed as a complete list of all responsibilities, duties, and skills required of personnel so classified. BrilliT is an equal opportunity provider and employer.*