**Energy Data Analyst**

**Position Description**

The Energy Data Analyst conducts energy analysis to support data-driven energy planning and management. This position manages internal and external data sources and utilizes software and data management tools to collect, track, analyze, and visualize energy data for a variety of internal and external audiences. Project examples include: analysis of facility energy and asset data to identify energy and cost-saving opportunities and/or the optimal location for distributed energy resources, analysis to assess energy efficiency potential across different end-use sectors, and statistical modeling to estimate the energy and environmental impacts of alternative fuel vehicle adoption.  
  
**Responsibilities**

* Conducts primary and secondary data collection; compiles and maintains databases such as inventory of buildings and assets, energy and operational use, and energy efficiency project performance.
* Performs energy tracking, monitoring, and analysis to identify energy and cost-saving opportunities.
* Analyzes, interprets, and communicates data from sources such as utility meters and bills, facility operations, and public data to reach conclusions and make recommendations.
* Organizes and performs statistical modeling to identify energy trends or deviations, support energy planning, and forecast utility consumption and budgets.
* Uses software and data tools to manage and visualize data for analysis and reporting, including customizing software and tools to align with the organization’s goals, needs, and conditions.
* Plans, designs, and conducts analysis to support program implementation, such as identifying facilities and sectors with the largest energy use to meet the organization’s energy and environmental goals.
* Serves as project manager for data analysis projects, including interaction with multiple stakeholders.
* Writes clear and concise descriptions of data, methodology, and results for inclusion in reports and presentations; prepares and presents results; creates support documentation for software and tools.
* Responds to energy data requests from colleagues, leadership, agencies, community partners, and residents; conducts site visits to inform analysis and takes follow-up actions when appropriate.
* Updates job knowledge by participating in educational opportunities, reading professional publications, maintaining professional networks, and participating in professional organizations.

**Qualifications**

**Skills and Experience:**

* Experience organizing and analyzing energy data.
* Understanding of building design and energy use concepts and metrics.
* Experience applying a range of statistical analyses to practical decision-making contexts.
* Experience using web-based data visualization tools (e.g., Tableau, Power BI, D3, Google Charts).
* Experience using Python, R, SQL, MATLAB, or other programming languages to analyze data sets.
* Experience using statistical programs such as Stata and SAS; advanced skills with Microsoft Excel.
* Experience with predictive modeling, data mining, or machine-learning techniques.
* Interest in energy efficiency and sustainability.
* Strong written and verbal communication skills.

**Education:**

* Bachelor’s, master’s, or other advanced degree in data science, computer science, mathematics, statistics, engineering, or related field.