Principal Power Analyst

Applications due by July 10, 2020 (end of business day)
Salary Range – $120,952 – $189,067

Under general direction of the Director of Power Resources, the Principal Power Analyst ("Analyst"), supports efforts related to power portfolio planning, energy risk management, rate development, custom product offerings for large customers, and load analytics and forecasting. The Power Resources department ("Front Office") is responsible for supplier and resource origination, meeting all wholesale energy needs, portfolio risk management, asset and portfolio optimization, settlements and compliance. The Analyst shall work with other members of the Front Office and independently on a range of complex strategic, administrative and analytical projects and tasks. The ideal candidate must possess experience with energy data analytics, energy trading and risk management and should have experience with industry standard modeling and simulation software packages.

SUMMARY DESCRIPTION
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SUPERVISION RECEIVED AND EXERCISED
This position reports directly to the Director of Power Resources. Management of consultants and contractors is expected. This position has no direct reports however may supervise temporary and/or internship positions.

ESSENTIAL FUNCTIONS
The ideal candidate should have strong analytical skills, knowledge of energy fundamentals and wholesale energy markets, risk management and accounting concepts (cost to serve load), forecasting, and ability to manage large sets of data. The Analyst will provide lead analytical support to the Front Office, with the following responsibilities:

- Design, program, modify, and operate systems for measuring, monitoring, and reporting financial risk from power supply positions.
• Calculating Value at Risk, Mark to Market, Gross Margin at Risk, PPA valuation, and other risk metrics.

• Evaluate, recommend and support procurement of deal trade capture and/or enterprise systems to manage supply contracts from origination to settlements.

• Support/lead efforts to develop systems/processes to implement new renewable resources and ensure optimization of resources in wholesale energy markets.

• Support/lead integrated resource planning, modeling and implementation efforts.

• Create and maintain various supply and demand-side models to support key forecasting, procurement and programmatic initiatives and/or compliance requirements including energy hedges, resource adequacy, carbon-free and RPS.

• Lead and support internal analysis and modeling of innovative rate design for new SVCE offerings or new program offerings.

• Provide internal technical analyses to assess impact of programs and policies on SVCE’s operations.

• Write staff reports and presentations for Board and Committee meetings.

• Performs related duties and responsibilities as required.

KNOWLEDGE, SKILLS, AND ABILITIES

Knowledge of:

• Principles of electricity generation, transmission and distribution.

• Knowledge of California energy markets and energy products, energy trading and trade capture processes, and standard risk management policies and strategies.

• Statistics, machine learning, and optimization algorithms and principles, and their application.

• California regulatory bodies and agencies (i.e., CPUC, CEC, CARB, BAAQMD and CAISO) policies and requirements applicable to load serving entities.

Technical analytic skills/models:

• General understanding of basic data science methods & approaches

• Expert proficiency in Excel modeling and Access Data Base

• SQL/programming proficiency

• Basic programming skills desired

• Proficiency in Microsoft Office Suite
• Proficiency in Tableau

• Proficiency or working understanding of energy deal trade management systems and electric supply modeling/dispatch software such as Ascend Analytics PowerSimm and BatterySimm; Plexos, Aurora, Sevrim.

Ability to:

• Configure and maintain various database systems

• Extract data, perform various analyses, and translate findings into meaningful business recommendations;

• Develop, perform and maintain queries and reports;

• Manage projects and teams

• Be self-directed and comfortable operating in a dynamic, fast-paced start-up environment.

• Demonstrate excellent written and oral communication skills.

REQUIRED QUALIFICATIONS

Experience and Training Guidelines: Any combination of experience and training that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

EDUCATION: A Bachelor’s Degree from an accredited university or college in science, technology, engineering, mathematics, environmental science, or a related, quantitative field. A Master’s Degree in the aforementioned fields can substitute for up to one year of the required experience. A Doctoral Degree in the aforementioned fields can substitute for up to three years of the required experience.

EXPERIENCE: Minimum of eight (8) years, depending on level, of progressively responsible experience as an analyst at an electric utility, regulatory agency, cleantech company, or similar organization.

LICENSE: Possession of a valid Class C California driver’s license and a satisfactory driving record at the time of hire.

PHYSICAL AND WORKING CONDITIONS
The physical and mental demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential job functions.
ENVIRONMENT: Work is performed in a typical office setting with exposure to computer screens and will require some evening and weekend work. The noise level in the work environment is usually typical of an office environment and public events. Remote/telework may be included.

PHYSICAL: While performing the duties of this class, employees are regularly required to sit, walk, and stand; talk or hear, in person and by telephone; reach with hands and arms. Employees are occasionally required to walk, and stand for prolonged periods; stoop, bend, kneel and twist; and may lift up to 20 pounds. Employees must be able to communicate in person, in writing, and by telephone with Board members, management, co-workers, vendors, consultants, and with the public in face-to-face, one-on-one, and group settings.

VISION: See in the normal visual range with or without correction; vision sufficient to read computer screens and printed documents; and, operate assigned equipment.

HEARING: Hear in the normal audio range with or without correction.