



**JOB DESCRIPTION**  
**Analyst - Quantitative**  
(Salary range \$85,000 - \$130,000 per year)

**SUMMARY DESCRIPTION**

Persons working in this job class will receive direct supervision from the Managing Director of Power Procurement and work across the organization with Sonoma Clean Power (SCP) staff in some or all functions related to power supply planning, compliance, data requests, and asset modeling. This individual will collect, assemble, analyze, and interpret data from manual and automated information systems and related programs. This position will be responsible for reporting out on market fundamentals. The individual performing this position will be tasked with modeling variable renewable resources and determining bidding and dispatching behaviors based on market analytics. The position will effectively be responsible for asset management and managing Day Ahead Real Time spread (DART). SCP's variable resource portfolio consists of solar, battery storage and wind. This position will be required to work independently and prepare data and reports for management.

Qualified candidates must be well organized, work collaboratively and communicate effectively as a member of a team in a fast-paced environment, think critically, possess a keen attention to detail, and have strong written and oral communication skills.

**REPORTING AND SUPERVISION**

Persons working in this job class will receive direct supervision from the Managing Director of Power Services.

**ESSENTIAL JOB FUNCTIONS AND RESPONSIBILITIES**

*This job description indicates, in general terms, the type and level of work performed as well as the responsibilities of employees hired for this position.*

Responsibilities may include:

- Conduct analytical and modeling support for the Procurement department.
- Monetize and actively manage SCP's variable resources based on modeling techniques determined by constantly changing market conditions.
- Ability to develop (either in-house or utilize various vendor software applications) modeling software to manage DART
- Provide tracking and asset optimization analysis for management.
- Provide pricing and asset valuation forecasting on an as-needed basis for potential future projects.

- Provide information regarding market fundamentals including but not limited to system constraints, asset performance, weather conditions impacting the system and other related matters that may impact pricing.
- Creating data visualizations in PowerBI
- Coding, debugging, and quality assurance (QA) of SQL, Python, and R scripts
- Utilize stochastic modelling tools for resource planning
- Other duties, as assigned.

## **REQUIRED EDUCATION, SKILLS AND EXPERIENCE**

Education: Bachelor's degree in Mathematics, Business, Economics, Statistics, Engineering, Computer Science or other related quantitative field, AND 0-5 years' experience, AND,

- The ability to work with complex models, data and reports.
- Proficiency in using MS Office suite products, specifically Excel, Outlook, and Adobe Acrobat. VBA, SQL and data analytics tools a plus.
- Knowledge and experience with Python, and R
- Familiarity with data visualization platforms such as PowerBI (or similar)
- Familiarity with Big Data and statistical analysis
- Knowledge and experience with machine learning/ artificial intelligence (AI) is a plus
- Understanding of California's Community Choice Aggregation (CCA) model.
- Knowledge of the goals, policies, purposes, and history of SCP.
- Excellent verbal and written communications skills.

## **WORKING CONDITIONS**

The physical and mental demands described here are representative of those that must be met by employees to successfully perform the essential functions of this class. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential job functions.

Environment:

Normal office environment with exposure to computer screens. Employees will interact with staff and/or public and private representatives during the course of work in individual and in group settings.

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.

Mental:

While performing the duties of this class, the employee is regularly required to use written and oral communication skills; read and interpret data, information and documents; analyze and solve problems; observe and interpret situations; learn and

apply new information or skills; perform highly detailed work; work on multiple concurrent tasks; work with frequent interruptions; work under intensive deadlines; interact with SCP management, Board, staff, vendors, the public, and others encountered during the course of work.

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.

To apply, please email a cover letter, resume, and references as a single PDF to:  
[jobs@sonomacleanpower.org](mailto:jobs@sonomacleanpower.org).

This position will remain open until filled.

*SCP actively works to provide an inclusive work environment, where people of different ethnicities, national origins, native languages, races, skin colors, sexes, genders, sexual orientations, ages, physical abilities, genetics, politics, religion, financial wealth, and education feel welcome, safe, and invited to fully participate at every level. SCP further seeks to contribute to a more inclusive and equitable society through our actions, our communication, our policies, and our investments. SCP expects all of its employees to contribute to these goals.*

**THE SONOMA CLEAN POWER AUTHORITY IS AN EQUAL EMPLOYMENT OPPORTUNITY (EEO) AND AMERICAN DISABILITIES ACT (ADA) EMPLOYER**