



## SENIOR QUANTITATIVE ANALYST

**SALARY RANGE:** \$121,933 - \$174,687

### **SUMMARY DESCRIPTION**

The Senior Quantitative Analyst ("Analyst") works under the direction of the Senior Risk Manager and Chief Financial Officer ("CFO") and will be primarily focused on quantitative modeling functions for SVCE.

The Analyst leads the build out and maintenance of the company-wide net revenue model and associated variance measures relative to budget, the build out and maintenance of the stress test and cashflow models, and structures deal pricing for commercial customers. The role is also responsible for the development of market and liquidity risk analyses, including estimating and calibrating parameters for use in risk models. Additional tasks include developing new financial, market, and credit models as needed.

### **SUPERVISION RECEIVED AND EXERCISED**

The Analyst reports to the Senior Risk Manager and the position does not include supervisory and/or team leader responsibilities but may supervise outside consultants / contractors as needed.

### **ESSENTIAL FUNCTIONS**

#### Measurement/Modeling

- Compile data and assumptions for use in quantitative/risk models
- Maintain and run market and credit risk, market risk, portfolio optimization, and valuation models.
- As necessary, model (including use of third-party tools) the stochastic properties of power forward and spot prices including supporting models (forwards, volatility, and correlation) that are robust yet practical for use in valuation and risk models. Balance requirements for model accuracy, speed, and flexibility.
- Evaluate the effectiveness of risk models in assessing the risk of the portfolio. Perform model back testing and calibrate risk models.
- Assess and report on the effectiveness of hedging strategies and programs including impact of PCIA, and use of financial instruments including derivative instruments.
- Develop stress test analysis
- Provide ad-hoc risk and valuation analysis
- Validate key models

## Credit Risk Management

- Manage credit risk and collateral requirements associated with SVCE's energy portfolio.
- Measure and report current and potential credit exposure.

## Risk Reporting

- Produce weekly risk reports. Enhance risk metrics.
- Track and explain budget variances and run root cause analyses

## **KNOWLEDGE, SKILLS AND ABILITIES**

### *Knowledge of:*

- Statistical and analytical methods, techniques, and procedures.
- Computer applications, including advanced proficiency with spreadsheet, database, word processing and presentation software.
- Basic programming skills (i.e., Python, Matlab, SQL, VBA)
- Energy Trading and Risk Management Software
- Options Pricing and Risk Models
- Community Choice Aggregation (CCA) programs and the services SVCE offers.
- The interaction between CCAs and investor-owned utilities.
- Diverse communities and customer types in the SVCE service area.

### *Ability to:*

- Develop data models related to rate structures, rate design scenarios, and fiscal impact modeling
- Take initiative in identifying opportunities to improve existing policies and create new ones
- Manage multiple priorities and quickly adapt to changing priorities in a fast paced, dynamic environment.
- Take responsibility and work independently, as well as collaborate across groups to solve problems.
- Establish and maintain effective working relationships with supervisors, co-workers, customers, local community groups and organizations and SVCE Board members.
- Exercise sound judgment in applying appropriate policies and procedures.
- Demonstrate creative problem solving and commercial awareness.
- Communicate effectively both verbally (by phone and in-person) and in written form, explaining complex issues clearly and concisely
- Represent SVCE in an effective, strategic, and beneficial way to internal and external stakeholders

- Be self-motivated with a strong drive to resolve issues quickly and effectively.
- Work accurately and swiftly under pressure.
- Demonstrate patience, tact and courtesy.

## **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:** Bachelor's Degree in mathematical and computational finance, economics, actuarial science, engineering, business, or a closely related discipline; or an equivalent combination of education and experience sufficient to successfully perform the essential duties of the position.

**EXPERIENCE:** A minimum of seven (7) years' progressively responsible experience with wholesale energy trading and retail power markets at an electric utility, independent power producer, or other entity within the energy sector, or in a closely related field.

**LICENSE:** Possession of a valid Class C California driver's license and a satisfactory driving record are required to use company vehicles.

## **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 at public events (fairs, meeting rooms, farmers' markets, etc.) with moderate noise 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.

**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.

**-----SVCE IS AN EQUAL OPPORTUNITY EMPLOYER-----**