Senior Data Engineer

Salary Range - $122,597 - $170,446

SVCE is seeking to hire a full-time Senior Data Engineer who works under the direction of the Director for Decarbonization & Grid Innovation to lead an organization-wide data strategy, and the design, implementation and management of an optimized and reliable overarching data architecture for SVCE’s business functions to support achieving our decarbonization mission. This position works closely with the Directors and Managers of other teams (Power Supply, Account Services & Community Relations, Legislative & Regulatory Effectiveness, Administration & Finance).

About Silicon Valley Clean Energy

Silicon Valley Clean Energy (SVCE) is the Community Choice energy service provider for approximately 280,000 customer accounts across Santa Clara County. SVCE is locally controlled by its 13 member agencies, and it provides its customers with renewable and carbon-free electricity at competitive rates. SVCE is accelerating decarbonization through the development of local solutions, ranging from increasing building electrification to supporting the adoption of electric vehicles.

We want creative problem solvers that are excited to work in an entrepreneurial environment and grow our organization! SVCE is committed to a diverse and inclusive workforce that is reflective of Santa Clara County’s rich culture and communities.

Position Summary

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- **Culture:** SVCE fosters a culture of open communication, responsibility, curiosity, accountability, teamwork, and care. We welcome a diversity of experiences and perspectives.
- **Start date:** Target September 1, 2020. The deadline to apply is July 24, 2020 at 5 PM. Candidates should send application materials to hr@svcleanenergy.org with the job title in the subject line.
- **Location:** This position will be based in SVCE headquarters in Sunnyvale, near Caltrain. At the present time, SVCE is working remotely into the fall.
• **Employment:** As an equal opportunity employer, we are committed to diversity, equity, and inclusion and strongly encourage people of color, women, those who identify as LGBTQ+, non-binary individuals, and those with disabilities to apply. Must be authorized to work in the U.S. Employer is unable to sponsor work visas.

• **Compensation:** Competitive compensation package offered, based on candidate experience.

• **Benefits:** SVCE offers a generous benefits package including
  - Individual, family, and domestic partner health insurance
  - Monthly Fitness benefit (ex: stipend for gym or exercise classes)
  - Retirement and Employer Matching Contributions
  - Health Reimbursement Account stipend
  - Flexible Spending Account stipend (ex: transit, health, dependent care)
  - Paid Vacation
  - Other benefits

**Position Details**

*Essential Duties and Responsibilities*

• Design, implement and manage an optimized and reliable overarching data architecture to support SVCE’s business and mission.

• Develop and maintain the infrastructure required for extraction, transformation, and loading of data from a wide variety of data sources (ETL).

• Identify, design, and implement internal process improvements, including automating manual processes, optimizing data delivery, and re-designing infrastructure for greater scalability.

• Design and implement best practices for data storage, versioning, querying, as well as managing relevant documentation.

• Build processes supporting data transformation, data structures, metadata, dependency, and workload management.

• Collaborate across the organization and with external partners to aggregate additional relevant data sets to support business functions.

• Design and develop data analytics dashboards and visualization tools. Collaborate with internal and external stakeholders to understand business and policy challenges, goals and objectives and translate them into data analytics use cases.

• Support data requests with key Silicon Valley stakeholders such as research institutions, start-ups, high-tech, students and the community.
Qualifications for Senior Data Engineer

Any combination of experience and training that would likely provide the required knowledge and abilities is qualifying.

Education:
A Bachelor’s Degree from an accredited university or college in science, technology, engineering, mathematics, 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:
Six (6) years of progressively responsible experience as a data engineer at an electric utility, cleantech company, software company, or similar organization.

Knowledge:
- Experience building and optimizing ‘big data’ data pipelines, architectures, and data sets.
- Excellent programming and statistical programming skills, including Python and R, respectively.
- Working knowledge of message queuing, stream processing, and highly scalable ‘big data’ data stores.
- Advanced working SQL knowledge and experience working with relational databases, query (SQL) as well as working familiarity with a variety of databases.
- Strong understanding of statistics, machine learning, and optimization algorithms and principles, and their application (regression analysis, time series, probabilistic models, supervised classification, and unsupervised learning).
- A successful history of manipulating, processing, and extracting value from large disconnected datasets.
- Subject matter expertise in one or more of the following topics: wholesale electricity markets, retail electricity markets, retail rate design, deep decarbonization, electrification, building energy usage, electric vehicles, energy efficiency, energy resources and procurement.

Skills:
- Superior project management skills, including managing multiple priorities.
- Self-directed and comfortable operating in a dynamic, fast-paced start-up environment.
Experience supporting and working with cross-functional teams in a dynamic environment.

Ability to work independently and in a team.

Excellent communication skills, including distilling complex information in a simple and understandable manner.

**Working Conditions**
SVCE is committed to reasonably accommodate an applicant for known physical or mental disabilities so that the applicant may participate in the application process. SVCE will engage in a timely, good-faith interactive process with any employee with a known physical or mental disability to identify potential reasonable accommodations, if any, to enable the employee to perform the essential functions of his or her position.

**Licenses/Certificates**
Possession and continued maintenance of a valid class C California driver’s license with a safe driving record or the ability to provide alternate transportation as approved.

**Submission Requirements**
Applicants must submit a cover letter outlining key qualifications and reasons for your interest, a current resume including education and 5 years of previous employment history, and a completed copy of the SVCE job application, available at http://www.svcleanenergy.org/jobs. Please email these documents and any questions to: hr@svcleanenergy.org by 5 PM on July 24, 2020.

**Working at Silicon Valley Energy**
SVCE is committed to complying with applicable laws, including the Americans with Disability Act and Fair Employment and Housing Act, ensuring equal employment opportunities to qualified individuals with a disability. SVCE prohibits unlawful discrimination based on age, sex or gender (including pregnancy, childbirth, breastfeeding or related medical conditions), genetic information or characteristics, gender identity, gender expression, race, color, ancestry, national origin, religion, creed, marital status, military or veteran status, sexual orientation, physical or mental disability, medical condition, or on any other basis prohibited by federal, state, or local laws. The information contained herein does not constitute either an expressed or implied contract, and these provisions are subject to change.