



815 E Street, Suite 12716  
San Diego, CA 92112  
SDCommunityPower.org

**OPEN POSITION ANNOUNCEMENT!**

# Data Engineer

Open until filled. First review 9/19/2022.

*San Diego County – hybrid work schedule set by SDCP*

## About the role

**San Diego Community Power (SDCP)** is seeking a savvy Data Engineer to join our growing team of analytics experts who will be responsible for designing, building, maintaining, expanding and optimizing our data infrastructure for data collection, management, transformation, and access. A key priority of this role will be to assist in SDCP's development of centralizing its data eco-system to allow for creation of pipelines that convert raw data into usable formats for data analysts and other data consumers to utilize. The Data Engineer will handle the core data aspects of software engineering and data science and utilize software engineering principles to develop algorithms that automate the data flow process. They'll collaborate with data and system analysts to build machine learning and analytics infrastructure from testing to deployment in meeting organizational needs.

## Who is San Diego Community Power?

San Diego Community Power is a community-owned organization that provides affordable clean energy and invests in the community to create an equitable and sustainable future for the San Diego region. We aim to be a global leader, inspiring innovative solutions to climate change by powering our communities with 100% clean affordable energy while prioritizing equity, sustainability, and high-quality jobs. We are a values-led, mission driven organization grounded in Justice/Equity/Diversity/Inclusion (JEDI), Impact, Integrity, Innovation, Servant Leadership, and Togetherness.

## Our History

San Diego Community Power (SDCP) was formed in 2019 as a public, not-for-profit community choice aggregator (CCA) in the San Diego region. We began electric service in 2021 and serve five member agencies: San Diego, Chula Vista, Encinitas, La Mesa, and Imperial Beach, with the unincorporated communities of the County of San Diego and the City of National City joining in 2023. SDCP was formed to bring local control and customer choice to San Diego while also providing clean and renewable energy at competitive rates. By the end of 2023, SDCP will provide electricity for nearly half the electric load in San Diego Gas and Electric's service territory and will

be the second largest CCA in California. For more information, please visit [SDCommunityPower.org](http://SDCommunityPower.org).

## **Commitment to Diversity**

At SDCP, we value diversity and are committed to creating an inclusive environment for all employees. We represent a diverse customer base and hope to hire highly qualified employees reflective of our communities. We provide equal employment opportunities to all applicants for employment and prohibit discrimination and harassment of any type without regard to race, color, religion, age, sex, national origin, disability status, genetics, protected veteran status, sexual orientation, gender identity or expression, or any other characteristic protected by federal, state, or local laws.

## **Essential Duties and Primary Responsibilities**

- Build and maintain a centralized cloud-based data infrastructure for optimal extraction, transformation, and loading of data from a wide variety of sources.
- Assemble large, complex data sets that meet functional / non-functional business requirements.
- Develop data tools and APIs for data analysis.
- Deploy and monitor machine learning algorithms and statistical methods in production environments to solve organizational needs.
- Ensure data accessibility and security and implement organization's data policies with respect to data privacy and confidentiality.
- Improve data systems reliability, speed, and performance.
- Build analytics tools that utilize the data pipeline to provide actionable insights into customer trends, operational efficiency, and other key business performance metrics.
- Collaborate with other internal teams, data analysts, and other stakeholders to understand and optimize how data can be leveraged to meet business needs.
- Assist in drafting data and analytics' solicitations and in the selection of consultants.
- Assist with drafting staff reports and presentations for Board and Committee meetings.
- Perform other related duties and responsibilities as required.

## **Minimum Knowledge, Skills, and Abilities**

- Advanced working SQL knowledge and experience working with relational databases, query authoring (SQL) as well as working familiarity with a variety of databases.
- Experience building and optimizing 'big data' data pipelines, architectures, and data sets.
- Experience performing root cause analysis on internal and external data and processes to answer specific business questions and identify opportunities for improvement.
- Strong analytic skills related to working with unstructured datasets.
- Experience in building processes supporting data transformation, data structures, metadata, dependency, and workload management.

- A successful history of manipulating, processing, and extracting value from large, disconnected datasets.
- Working knowledge of stream processing, and highly scalable 'big data' data stores.
- Strong project management and organizational skills.
- Strong interpersonal skills and ability to communicate complex technology solutions to senior leadership, gain alignment, and drive progress. The position may represent SDCP in professional engagement settings from local to national convenings (conferences, workshops, executive meetings, etc.) and must be comfortable doing so.
- Experience supporting and working with cross-functional teams in a dynamic environment.
- Commitment to sustainability, community energy, and mission driven work.
- Access to reliable transportation to be able to attend occasional events, meetings, and workshops, 1-2 times per month.

### Preferred Knowledge, Skills, and Abilities

- Experience supporting the implementation of programs funded by California state agencies (e.g., California Public Utilities Commission, California Energy Commission, California Air Resources Board).

### Education and Experience

Minimum of five (5) years of professional experience in a Data Engineer role, preferably in the energy industry with a graduate degree in Computer Science, Statistics, Informatics, Information Systems, or another quantitative field. The candidate should also have experience using the following software/tools:

- Experience with big data tools: Hadoop, Spark, PowerBI, Kafka, etc.
- Experience with cloud services: AWS, Azure, Google Cloud
- Experience with relational SQL and NoSQL databases.
- Experience with data pipeline and workflow management tools: Azkaban, Luigi, Airflow, etc.
- Experience with stream-processing systems: Storm, Spark-Streaming, etc.
- Experience with object-oriented/object function scripting languages: Python, Java, C++ etc.
- Demonstrated experience developing working relationships that demonstrate high trust, collaboration, and team-player attitude.
- High proficiency with Microsoft Office Suite, Word, Excel, PowerPoint, and ability to use virtual meeting applications.

### Work Environment & Conditions

Prolonged periods of sitting at a desk and working on a computer. The position requires occasional carrying, lifting and/or moving objects up to 15 pounds. Also, it may require occasional local travel.

At SDCP we work in the communities we serve and with each other in the office. To ensure that SDCP meets its obligation to provide a safe and healthy workplace for employees, SDCP requires employees to be fully vaccinated for COVID-19. Exemptions to the vaccine requirement will be considered for individuals with medical conditions that prevent them from being vaccinated and for individuals with sincerely held religious beliefs that prohibit them from being vaccinated, consistent with governing labor laws.

SDCP is a public agency required to adopt and promulgate a Conflict of Interest Code (“COI”). The COI code requires employees in designated positions, including those identified under the interim disclosure process to file a Statement of Economic Interests (Form 700) on an annual basis. A Successful candidate accepting this position may be required to file Conflict of Interest forms subject to the regulations of the Fair Political Practices Commission.

## Compensation

**Starting Salary Range:** Starting salary is not expected to exceed \$140,000; the position has a full salary range of \$110,000 – \$160,000.

**Benefits:** Standard benefits package including but not limited to:

**Insurance:** SDCP offers a group health benefits plan, including health care, vision, and dental insurance, for eligible employees. Health care support amount towards benefits elections equal to \$1,280 per month.

**Retirement:** SDCP offers a 457(b) plan for employee contributions and offers a 10% contribution to a Money Purchase Plan.

**Paid Time Off:** 11 holidays per year + paid winter holiday (*between 12/24-12/31*), 160 hours of accrued paid time off per year (*increases with time in service*), and 96 hours per year of accrued paid sick leave.

## How To Apply

Applicants must submit their resume, cover letter, and references using the “Apply today” functionality on our Career Opportunities webpage at:

[SDCommunityPower.org/about/career-opportunities](https://SDCommunityPower.org/about/career-opportunities)

**SAN DIEGO COMMUNITY POWER IS AN EQUAL EMPLOYMENT OPPORTUNITY (EEO) AND AMERICAN DISABILITIES ACT (ADA) EMPLOYER.**