Job Description:
Power Systems Engineer (Microgrid, Distributed Energy, Energy Storage)

Summary

The Power Systems Engineer will implement and manage Distributed Energy Resources programs for MBCP covering the full range of DER resources, including microgeneration, distributed energy, electric vehicle infrastructure, and energy storage. This is an exciting opportunity to increase local renewable energy usage and reduce greenhouse gas emissions in the Central Coast of California. The Power System Engineer works under the supervision of the **Director of Power Supply Resources** and is expected to work closely with the staff responsible for customer programs. The ideal candidate must possess experience with power systems studies and modeling and should have experience with industry standard modeling and simulation software packages.

Supervisory Responsibilities

No direct supervisory role anticipated at this time, but this could change as MBCP grows over time.

Job Description

The Power Systems Engineer will assist with the creation of a distributed generation strategy and be the primary driver of implementation of each strategy, along with launching procurement efforts to develop opportunities to employ DERs in MBCP's service territory. The Power Systems Engineer will work closely with key internal and external stakeholders (including developers, technology providers, site hosts, regulators, and board members), coordinate local community-based renewable/GHG-free energy projects, and participate in Board of Directors meetings.

Essential Duties and Responsibilities (Illustrative Only)

- Testing, commissioning, and operation of new DER assets in the MBCP service territory
- Evaluates electrical systems, products, components, and applications; applies knowledge of electricity and materials.
- Build financial models to evaluate and analyze the costs and benefits of different renewable energy structures, including power purchase agreements (PPAs) leases, and ownership models.
- Perform studies on renewable resources, distributed energy resources, battery energy storage, relay and protection, monitoring, and smart grid related applications using relevant industry standard software
- Interact with customers, utility personnel, contractors, and project stakeholders to assess the technical feasibility of distributed energy projects including commercial and industrial-scale photovoltaics, energy storage and microgrid projects.
- Conduct load flow, transient stability, reactive planning, infrastructure re-enforcement, generator interconnection, and related studies.

- Prepare technical drawings, one-line diagrams, cost estimates and specifications of electrical systems to ensure that installation and operations conform to standards and customer requirements.

Minimum Qualifications:

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required.

Experience/Education

- Bachelor's degree or master's degree in engineering or a related major, including experience with electrical power generating equipment and control systems;
- Minimum of three (3) years of experience directly related to the duties and responsibilities described above;
- Direct experience designing and developing DER installations including evaluating site locations, estimating system output, analyzing costs and benefits, and DER system design;
- Excellent oral and written communications skills.

Knowledge of:

- Knowledge of the California Independent System Operator (CAISO), electric power systems, Distributed Generation, electrical distribution and Transmission and power system controls;
- Knowledge of power purchase agreement structures, general terms and conditions and excellent negotiation skills;
- Basic understanding of the interconnection process with the distribution utility and demonstrated experience working with utilities and acting as the main technical contact for interconnection approval of onsite generation systems;
- Familiarity with industrial SCADA systems;
- Familiarity with the DER landscape including DER technologies, contracting structures, local, state, and federal policy, funding sources and opportunities, and best practices for procurement design and implementation;
- Understanding of regulatory requirements and opportunities including the California Public Utilities Commission (CPUC), California Energy Commission (CEC), the California Independent System Operator (CAISO), the Department of Energy (DOE), as well as others.

Ability to:

- Manage multiple priorities and adapt to change within a fast-paced business environment

Willingness to:

- Employee may be required to work occasional evening hours

Working Conditions

The physical demands described here are representative of those required for the position. Position requires sitting, walking, standing, bending, and twisting in the performance of daily activities. The position requires hand manipulation and repetitive hand movement and fine coordination in using a computer keyboard. The position requires near and far vision in reading reports and use of a computer. Acute hearing is required in supporting meetings and providing phone and in-person customer service. The position occasionally requires lifting and/or moving objects up to 20 pounds. MBCP will make reasonable accommodation of the known physical or mental limitations of a qualified applicant with a disability upon request.

Licenses/Certificates:

Possession and continued maintenance of a valid class C California driver's license or the ability to provide alternate transportation as approved by the CEO and a safe driving record. Possession of a P.E. (Professional Engineer) license is desirable.

Location and Compensation. Job is located in Monterey, California. Compensation for this position is up to **$131,000** yearly, commensurate with experience. A full benefits package is also offered as part of salaried employment.

Equal Employment Opportunity

MBCP is an Equal Employment Opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, gender, sexual orientation, gender identity, gender expression, national origin, age, protected veteran or disabled status, or genetic information.

Application Process:

The position is open until filled. To be considered for this position, please submit a MBCP application, detailed resume, cover letter, and three professional references to recruitment@mbcp.org. Resumes will be screened in relation to the criteria outlined in the job description. Candidates deemed to have relevant qualifications will be contacted. Telephone calls regarding this position will not be accepted.