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Senior Electrical Engineer – Licensed Professional Engineer

McCalmont Engineering is seeking a licensed professional electrical engineer to join us in designing and engineering large scale solar power and energy storage systems. Candidate will be responsible for PV electrical designs from solar modules/batteries through utility interconnections at medium voltages. Project sizes may vary from 1 MW to 500 MW so only engineers very experienced with large electrical systems should apply. Candidate will perform his/her own project designs but may also oversee the work of junior level engineers. The ideal candidate will have a wide range of experience in electrical design, including a thorough knowledge of the NEC (esp. Articles 690 and 705) and NESC and their electrical engineering application to DC and AC distribution systems. The ability to creatively solve complex engineering problems is a must.

This job includes the following responsibilities:

- Prepare and oversee project electrical designs including single line drawings, DC and AC wiring diagrams, electrical site plans and equipment layouts.
- Understand and be able to execute all supporting calculations of solar power plant design, including PV string sizing, DC and AC conductor & conduit sizing, and tracker design & powering.
- Be able to execute drawings at the expert level in AutoCAD.
- Assure that designs are Code-compliant including familiarity with the latest updates to the NEC and NESC.
- Have a working knowledge and be able to perform complex analyses with solar design software including PVSyst, ETAP or SKM, and WinIGS or CDEGS.
- Have experience with conducting site walks to assess electrical interconnection complexity.
- Have experience with both load-side and supply-side taps and be able to explain the differences and tradeoffs between them.
- Have experience with distribution substation design at medium voltages up to 34.5 kV.
- Meet with customers as required and provide engineering support including responding to RFI's and evaluating and approving submittals.
- Have experience with preparing customer proposals and specification documents.
- Have direct and relevant experience with the latest solar and battery storage products including solar modules, inverters, mounting system and BESS's .

Knowledge, Education and Experience Requirements:

- Minimum B.S. degree in an engineering or technical field, ideally electrical engineering.
- M.S. degree in engineering desired.

- Active professional engineer's license (electrical), ideally in California (but comity states also acceptable).
- Knowledge of electrical design, materials, and methods of construction in power systems.
- Knowledge of electrical distribution and transmission systems is a plus.
- Solar electrical systems background is a plus.
- Thorough knowledge of the National Electrical Code (NEC) and the National Electrical Safety Code (NESC) as it relates to commercial and utility scale power plants.
- Expert proficiency with AutoCAD and the ability to generate construction level drawings.
- Good communications and presentation skills including the ability to organize and present complex technical information effectively in Excel, Word, and Powerpoint.
- Highly organized and able to multi-task multiple projects at once.
- Meticulous work habits including a close attention to detail in designs.
- Ability to interact with junior engineers and to act as a mentor and trainer.
- Strong problem solving skills.

In addition to offering a competitive compensation package, McCalmont Engineering offers a benefits package that includes covered medical and dental insurance for employees and optional coverage for their eligible dependents including domestic partners. We provide paid life insurance and long term disability for the employee, and employees are encouraged to contribute to the company's 401(k) plan. McCalmont Engineering offers a 9/80 work schedule, 8 paid yearly holidays and a vacation plan with a starting accrual rate of three weeks. We will consider candidates for remote work outside the San Francisco Bay Area, but candidates should be prepared for some amount of travel as required by the needs of the projects and business. Women and minority candidates are encouraged to apply, and McCalmont Engineering is an equal opportunity employer.

If you are interested in joining one of the premier solar engineering companies in the nation, McCalmont Engineering provides a fun and challenging work environment. We have designed over 2 gigawatts of solar and storage projects throughout the U.S. and are widely respected for the high quality of our designs as well as our ethical and customer-focused business practices. Please apply by sending your resume to jobs@mccalmont.net.