

Position: Associate Engineer (based in the Santa Barbara area of California)

Do you want to design and implement renewables-driven solutions to the climate crisis? Do you want to help accelerate the transition to clean local energy? Do you want to work as part of an innovative and fast-paced team? If your answer is yes to these three questions, you have the technical skills to make a significant contribution, and you live in the Santa Barbara area, then the Clean Coalition wants to learn more about you.

The Clean Coalition seeks a full-time Associate Engineer based in the City of Santa Barbara to advance our Solar Microgrid and Community Microgrid work. Solar Microgrids are solar-driven microgrids that serve individual facilities, while Community Microgrids harness local solar and other distributed energy resources (DER) to achieve a new approach for designing and operating the electric grid and delivering an unparalleled trifecta of economic, environmental, and resilience benefits to communities.

About the Clean Coalition:

The Clean Coalition is a nonprofit organization whose mission is to accelerate the transition to renewable energy and a modern grid through technical, policy, and project development expertise. The Clean Coalition drives policy and program innovation to remove barriers to adoption of DER such as local renewables, energy storage, and load management. We design and implement policies & market mechanisms that set the stage for local renewables to serve as the backbone of the electricity system, and we collaborate with utilities, municipalities, solutions providers, financiers, and other stakeholders to envision, design, and deploy projects that prove the technical and economic viability of DER. Find more information at www.clean-coalition.org

The role:

The Associate Engineer will play a vital role in performing technical and economic analyses associated with Solar Microgrids and Community Microgrids. This role requires a willingness to learn, the ability to work independently, and the flexibility to wear multiple hats and support multiple projects. The Associate Engineer will collaborate with and support other engineers, Project Managers, and the Clean Coalition's leadership team with project-specific tasks. Much of the Associate Engineer's work can be done from a home office located in the Santa Barbara area, but there will be regular requirements for in-person participation in meetings and events. The start date for this position is as soon as possible. This job requires a technical/engineering background, including an associated degree, excellent communication skills, and a strong work ethic that aligns with the Clean Coalition's mission.

Responsibilities:

- Perform sizing analyses of solar, energy storage, and other DER.
- Analyze utility bill and interval data, and associated economic analyses, using industry standard tools.
- Assess critical and priority loads and create associated circuit flow diagrams.
- Assess electric vehicle charging infrastructure (EVCI) impacts and opportunities.

- Analyze electricity grid impacts.
- Develop conceptual designs, block diagrams, and site layouts.
- Write professional technical specifications, reports, and proposals.
- Develop professional infographics and PowerPoint presentations.
- Support in-house development of analytical tools and other initiatives.

Requirements:

- Alignment with the Clean Coalition mission.
- Degree in electrical engineering or equivalent technical field.
- Renewable energy industry knowledge.
- Common-sense understanding of economics and ability to perform economic analyses with industry standard tools.
- Excellent written and verbal communication skills.
- Ability to work independently and collaboratively with technical and non-technical team members and stakeholders.
- Proficiency with Microsoft Office (Excel, Word, and PowerPoint) and Google Suite.

Preferred experience:

- Project experience, particularly in designing, installing, and operating microgrids and associated sub-components such as solar and energy storage.
- Experience writing technical specifications for engineering designs.
- Familiarity with power engineering and the distribution grid.
- Experience with project finance, including common incentives such as tax-related incentives and renewables-specific incentives like SGIP.
- Proficiency with software for evaluating, designing, and/or modeling DER, including solar, energy storage, microgrids, load management, EVCI, and electricity grid operations.

Application process:

Please send, in a single email, a cover letter, a resume, and a brief piece of original technical writing to frank@clean-coalition.org. The subject of the email should read “Associate Engineer — [Your Name],” and in the body of the email, you should indicate how you became aware of this opportunity.