



Power System Engineer – Analytics

Sound Grid Partners, LLC is an analytics, engineering services, and advisory firm that works to make distributed energy resources (DER) a core part of the electric grid. We equip our customers to capture the unique opportunities of distributed energy resources while remaining firmly grounded in the engineering and business principles that keep our power system safe and reliable.

Founded in 2018 by two experienced utility and analytics professionals, we are a small and nimble team based in Seattle, WA. We serve clients across the U.S. including electric utilities, renewable energy developers, and other energy service providers. Engagements with clients last months to years, and we pride ourselves on building close, long-term relationships to support them at every stage of a DER project lifecycle.

Summary:

We are seeking a driven, independent team member with strong communication and customer empathy skills as well as interest and experience in power system modeling and analytics. Above all, we value individuals with high integrity, high competency, and curious minds.

Location:

Seattle, WA / open to remote location

Description of Work:

The focus of the role will be techno-economic modeling and analytics, most commonly of grid-scale storage and solar+storage projects. This position will immediately involve client-facing projects including but not limited to:

- Modeling of electric power systems.
- Modeling of solar+storage and stand-alone storage systems in support of optimal design and project development activities
 - Developing new energy flow models as well as updating and enhancing established in-house models with a focus on improving model flexibility, accuracy, and run-time.
 - Value analyses for DER systems in wholesale markets and vertically integrated utilities.
- Staying up to date with electricity market trends and policy changes.
- Presenting analysis results, strategies, and recommendations to clients with varying technical and non-technical backgrounds.

Description of Ideal Job Candidate:

We are looking for a combination of the following skills and experiences (please consider applying if you meet a reasonable subset):

Core Skills

- Excellent listening and synthesis skills, especially including working closely with clients to translate disparate regulatory, business, and power system objectives into a project work plan.



- Fluency and adaptability in presenting technical analyses, including context, approach, assumptions, key findings, caveats, and recommended actions, to customers in technical and non-technical roles.
- Skill in communicating crisply and clearly via email, writing lucid and interesting technical reports, and summarizing complex analyses in presentations that put a course of action on strong technical footing.
- Comfort with uncertainty and experience making risk- and uncertainty-informed recommendations for action.

Technical Competencies

- Programming using Python (preferred), MATLAB, R, or related language, and Excel-based modeling.
- Statistical analysis for techno-economic valuation of DERs, with a focus on energy storage and solar+storage.
- Familiarity with common utility and electrical market data sources and formats, electrical calculations, and financial metrics used in energy project modeling.
- General background knowledge of the evolving landscape for electric utilities, grid modernization and regulatory trends, and familiarity with utility processes and programs.
- Experience or familiarity with electrical power markets or DER operations is desirable.

Qualifications:

- BS or MS in power systems engineering, electrical engineering, mechanical engineering, computer science, statistics, physics, economics, or related field.
- 2+ years of practical experience working in quantitative analysis, preferably of DERs in energy systems, in a utility, developer, regulatory, or vendor setting, or as part of academic research or extracurriculars.

Additional Information:

We're a small, flexible company, operating with low overhead and high independence. Employees have discretion over their work location. Our work environments include a Seattle, WA office (typically used for ~2 days/week by Seattle-based employees) and home offices, with travel from 0 - 5% for client visits and conferences. We worked fully remotely from March 2020 through July 2021 and continue to operate cautiously with respect to COVID exposure risk, taking reasonable precautions around travel and in-person work. We are committed to a sustainable work-life balance and making time for family, play, and other interests.

We offer a competitive salary and benefits package, and an unusual degree of flexibility. We are an Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex (including gender identity, sexual orientation, and pregnancy), national origin, age (40 or older), disability or genetic information.

To Apply:

Send a resume and a cover letter describing why you would excel in the position to info@soundgridpartners.com.