



SENIOR ENERGY MARKET ANALYST AT ENERGY SOFTWARE STARTUP

Please send your resume to careers@newgridinc.com, referencing the Power System Engineer position in the email subject

NewGrid is a MA-based cleantech software startup set on making the bulk electricity grid more efficient, reliable, and green energy friendly. NewGrid's optimization software technology enables a significant increase in the utilization and transfer capacity of the transmission grid without any new hardware by re-routing flow around congested bottlenecks. The transmission capacity unlocked by NewGrid software increases access of renewable resources to the power grid while improving grid reliability and reducing the cost of electricity.

Our team is made of engineers, researchers, software developers and economists who jointly have decades of experience in power systems and energy markets analysis and design. NewGrid's founders are at the forefront of electricity industry innovation and have successfully launched other startups. With DOE ARPA-E support and collaborating with the largest grid operators in the US, our founders led the first ever team to identify and implement practical grid reconfigurations for application to large-scale power systems.

NewGrid clients and partners include power system operators in North America and Europe, electricity transmission companies, international renewable energy companies, and consulting firms serving the utility industry.

NewGrid is actively engaged in the cleantech ecosystem in the US and abroad. NewGrid is a member of Greentown Labs, the largest cleantech startup incubator in the United States, and a founding member of the WATT coalition of advanced transmission technology companies. NewGrid has been supported by DOE ARPA-E, MassCEC, MassVentures and the National Science Foundation.

A senior analyst works closely with senior staff and team members in executing project-driven assignments with varying levels of client exposure and technical complexity. A typical assignment begins with understanding the problem by conducting comprehensive market research, continues with discrete quantitative and analytical tasks, and concludes with the interpretation and documentation of results for subsequent tasks or presentation to team members and clients. Analysts also contribute toward the development of key deliverable documents and participate in business development activities.

RESPONSIBILITIES:

- Developing and using power system optimization models for consulting projects
- Conducting data analysis using Excel as well as Python, R, SQL, VBA, etc.
- Mentoring junior analysts. Provide a pair of critical eyes to review and audit work products by junior team members.
- Examining market trends and conditions through targeted research
- Presenting analytical results to team members and clients
- Collaborating with team members to prepare reports, memorandums, presentations and other client deliverables

MINIMUM QUALIFICATIONS:

- 2-4 years of experience in engineering-related consulting, systems engineering, or data analytics paired with a strong demonstrated interest in the energy industry
- 2-4 years of experience developing and using power system simulation models (ENELYTIX, PSO, AURORA, PROMOD, PLEXOS, GE MAPs, etc.) for capacity expansion and production cost modeling.
- Demonstrated ability to process and analyze large quantity of data using Python (pandas), R, and/or SQL (SQL Server, SQLite, AWS Athena).
- Knowledge of North American power markets trends, regulations, and data sources.

- Academic knowledge of optimization modeling (constraints and shadow prices), microeconomics (supply and demand) and elementary finance (Net Present Value calculations)