



ENERGY ANALYST AT ENERGY SOFTWARE STARTUP

Please send your resume to careers@newgridinc.com, referencing the Energy Analyst position in the email subject.

NewGrid is a MA-based cleantech software and services 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 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 electricity costs.

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 NSF.

An Energy Analyst works closely with senior staff and other team members to execute project-driven assignments with varying levels of client exposure and technical complexity. A typical assignment begins with understanding the problem by conducting comprehensive research, continues with discrete quantitative and analytical tasks, and concludes with the interpretation and documentation of results for subsequent tasks or presentation. Analysts also contribute towards the development of key deliverables and may participate in business development activities.

NewGrid offers a collaborative and research-oriented work environment with access to highly experienced energy experts, an excellent platform for personal and professional growth, and the opportunity to work on impactful projects on the cutting edge of the energy transition.

This posting is for an in-person role. Energy Analysts will be expected to work from the office in Newton, MA or Somerville, MA most days, with occasional flexibility to work from home as needed. We will consider candidates who require visa sponsorship.

RESPONSIBILITIES:

- Examine electricity market rules, conditions, and trends through targeted research
- Review and summarize market reports and client documents
- Conduct data analysis tasks using Excel and Python
- Develop inputs for and use power system optimization models for consulting projects
- Present analytical results to team members and clients
- Collaborate with team members to prepare reports, presentations, and other client deliverables

MINIMUM QUALIFICATIONS:

- Bachelor's degree in engineering, mathematics, or another quantitative field
- Strong data analysis skills, including hands-on experience using Python, R, or another similar language
- Knowledge of U.S. power market fundamentals, regulatory trends, energy economics, and data sources
- Basic academic understanding of optimization modeling as it relates to electricity markets (constraints and shadow pricing), microeconomics (supply and demand), and elementary finance (net present value calculations)
- Excellent analytical skills: ability to deduce key insights from data; attention to detail without losing the big picture
- Strong communication skills: ability to work collaboratively in a diverse team environment; ability to communicate complex findings
- Interest in the energy sector, demonstrated by relevant coursework, internships, or prior full-time employment in the industry

PREFERRED QUALIFICATIONS:

- Advanced degree in engineering, mathematics, economics, or another relevant discipline
- Prior experience developing and using power system simulation models (ENELYTIX/PSO, AURORA, PROMOD, PLEXOS, ENCOMPASS, etc.) for capacity expansion and production cost modeling
- Prior work experience in engineering related consulting, power markets, renewable energy, or related field