



POWER SYSTEMS ENGINEER 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.

RESPONSIBILITIES:

- Conduct various power system analyses on bus-branch and node-breaker models.
- Study congestion events and mitigate impacts of congestion on client assets using NewGrid software.
- Design and deploy processes to create detailed power system models by combining data from multiple sources.
- Create reports and other deliverables.
- Manage individual project priorities, deadlines, and deliverables.

MINIMUM QUALIFICATIONS:

- Master's degree in Electrical Engineering, similar technical field of study or equivalent practical experience.
- 3+ years relevant professional work experience in utilities industry.
- Background in electric power transmission systems and in power system analysis software, such as PowerWorld Simulator, Siemens PTI PSS/E, GE PSLF and DIGSilent PowerFactory.
- Experience with programming languages.
- Excellent written and verbal communication skills.
- Excellent interpersonal skills.

PREFERRED QUALIFICATIONS:

- PhD degree, further education or experience in Electrical Engineering or other related technical field.
- Experience in regional transmission organizations wholesale market operations and/or transmission operations.
- Experience with PowerWorld Simulator.
- Experience with production costing and market simulation software, such as PSO, Plexos and PROMOD.
- Experience with transmission operations support systems, including Energy Management Systems.

- Demonstrated experience with Python