

Energy Storage Optimization Lead

Location: Remote or Miami, FL

Website: <https://spearmintenergy.com/>

The Company:

Spearmint Energy aims to be the preeminent green merchant trading company developing, owning, operating, and trading around Battery Energy Storage, Solar, and Wind to reduce grid volatility, increase system resiliency, and help to reduce Carbon emissions in a responsible and efficient way.

Summary:

This professional is the Firm's subject matter expert in the operation of lithium-ion battery systems as part of the Firm's unique merchant energy trading strategy. They will lead the formation and optimization of the Firm's proprietary view on operation of its existing battery projects as well as projects under development.

This professional will report directly to the Head of Research and Analytics and work closely with the Origination, Development, and Project Finance teams to optimize energy storage use cases and revenue streams.

The ideal professional is an "analyzer," who has an aptitude for understanding the relationship between engineering and commercial considerations. This professional should feel comfortable working with cross-functional teams and managing competing objectives and considerations.

Specific Duties:

- Lead optimization of the Firm's storage assets in support of commercial and technical objectives using various external/ internal resources.
- Provide insight to the Firm's interconnection/development strategy and acquisition efforts by optimizing energy storage configurations and dispatch profiles.
- Manage 3rd party energy storage techno-economic modeling and develop internal models over time.
- Provide recommendations for energy storage sizing, dispatch, and operational strategy, and communicate those results effectively in both written and verbal formats to multiple internal groups.
- Engage with vendors and operations teams during the negotiation of the performance and specification provisions of supply and other contracts, and support performance compliance monitoring during the term of the contract(s);
- Support potential warranty claims and root cause analysis of performance deficiencies.
- Comply with the Firm's physical and cybersecurity requirements and implement industry best practices for the protection of data and generation facilities.

Knowledge, Skills, and Abilities:

All interested applicants are encouraged to apply even if all the described requirements are not met. The Firm will consider direct experience operating battery storage systems above all other requirements.

- The successful candidate should have experience modeling energy storage and possess deep knowledge of all the critical levers impacting energy storage sizing and revenues.
- 4-year college degree preferred, industry, technical, and/or military experience considered in lieu of degree.
- Energy storage performance modeling experience required; financial modeling experience preferred
- 1+ year of direct experience in optimizing transmission connected lithium-ion battery systems with a capacity of at least 1 MWh required
- 3+ years of experience in the energy storage industry preferred
- Knowledge of technical performance characteristics of lithium-ion battery-based energy storage included degradation, cycling, state of charge, auxiliary loads, and round-trip efficiency required
- Experience with the negotiation and implementation of contractual performance requirements (e.g. performance guarantees and warranties)
- Proficiency in Microsoft Office – Excel, Word, Power-Point, etc. required
- Experience in ISO/RTO wholesale energy market settlements preferred
- Knowledge of energy storage policies impacting project economics including investment tax credits preferred
- Experience sourcing data from a database. Experience with cloud databases, such as AWS Redshift or Snowflake preferred programming experience in Python, R, VBA, and SQL a plus
- AI dispatch / real time predictive analytics experience a plus

Physical requirements and environment:

The work environment and physical demand characteristics align with the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions if such professional is selected.

The successful candidate will perform primarily sedentary office duties with occasional travel (<20%) to other company offices or construction or operating project sites. They may be required to sit, stand, walk, and use a computer.

While the company's offices follow traditional business hours, given the nature of Spearmint Energy's business and the sector in which we operate, employees, including this position, may occasionally be required to conduct work outside of these hours as is typical in a client-first business. Such work may include communicating with contacts in other time zones, traveling, addressing particularly urgent matters related to projects under construction or in operations, and other circumstances.