



## **Electrical Engineer, Energy Storage**

Be a part of a dynamic, entrepreneurial team within a Fortune 200 energy company working to provide a clean energy future by developing energy technologies. Energy storage is the key to a clean energy future and AES is the global leader in designing, developing, and deploying commercial energy storage solutions. Our energy storage solutions unlock value from existing power infrastructure, enable greater adoption of renewable generation, and improve the flexibility and reliability of the power system.

With over 300 MW of energy storage in operation and construction and over 2,000 MW in development, AES has the largest fleet of battery-based storage assets in commercial operation today with significant expansion planned for the future in the US and abroad. To learn more, visit [www.aesenergystorage.com](http://www.aesenergystorage.com) and follow @aes\_es on Twitter.

### **Job Description**

Advancion<sup>®</sup> is AES' energy storage product offering. The role will primarily engage in the ongoing development of Advancion energy storage solutions. The energy storage Electrical Engineer will be directly involved in the engineering of the AES Advancion<sup>®</sup> energy storage product and will be individually responsible for key component development and specification. The person in this role will work collaboratively with other engineers including other component engineers, testing, software development, and QA engineers to create a seamless, fully functioning product. The Electrical Engineer will collaborate and/or manage 3<sup>rd</sup> party engineering resources on a project by project basis and will use his/her own technical and work experience to work in a largely self-directed way to meet technical and business product objectives. Major responsibilities to include:

- Design and specify the electrical engineering of energy storage solutions and products including the evaluation of new technology.
- Manage and collaborate with third party engineering firms in the development of Advancion characteristics and functionality.
- Assess and develop technical requirements for use key suppliers in the development of Advancion subcomponents.
- Coordinate with software development and sales engineering teams to meet product feature and delivery commitments.



## QUALIFICATIONS

The preferred candidate will have an electrical engineering undergraduate degree with 5+ years of work experience in a related field OR a master's degree in a related field. The ideal candidate will possess:

- Work experience in the power/energy/renewables industry with a solid understanding of electric power systems is required.
- Required experience in solid knowledge of electric power systems
- Preferred experience with: battery charging systems, motor drives, solar inverters, or wind power converters is preferred, with special preference candidates having in-depth working knowledge of IGBT-based voltage source inverters
- Required experience writing functional code in common programming languages
- Technical expertise and experience with: battery systems, lithium ion batteries, inverters, motor drives, ungrounded power systems, battery management systems, short circuit analysis, oscilloscopes, embedded software, Matlab, Simulink, Ruby, SCADA systems, 3D CAD, Autodesk, Siemens PSSE, GE PSLF, UL1741, UL1973
- Strong interpersonal communications skills with a proven ability to coordinate with diverse internal and external teams.
- Strong individual initiative and ability to work with minimal supervision while being a collaborative team player.
- Ability to work dynamically, across multiple teams and projects concurrently, in a technical business environment.
- Possesses an entrepreneurial drive for getting things done and a "whatever it takes" attitude.
- Has excellent English verbal and writing skills.
- Willing and able to travel 20-30% of the time is required.