



## Test 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

Based in Long Beach, CA, The Energy Storage Test Engineer will be responsible for the configuration, testing, and certification of key third party components of Advancion Energy Storage systems. Typical work will include performing tests, advising on means of certification compliance, and reporting the results of testing on Li-ion battery systems, new technology battery systems, and IGBT based power conversion systems. The engineer will also be responsible for the evolution of the testing processes, with the approval of the Director of Engineering. Knowledge of electrical systems testing equipment and software analysis tools is key to this role. Knowledge of power conversion equipment, DC and AC power systems, and typical power plant equipment is necessary. The engineer may also travel to customer sites to support installation as needed. Major responsibilities include:

- Use technical schematics and documentation to perform testing and troubleshooting of system issues.
- Verify compliance with required technical specifications and advise supplier on means of compliance using experiential and formal knowledge.
- Use oscilloscopes, meters, and diagnostics and analysis software to perform standardized certification testing.
- Collect data and report results of tests to product engineers. Advise AES engineers and third party supplier engineers on means of compliance and general build quality.
- Verify validity and correctness of third party documentation and installation instructions, markup for correction and revision.
- Assist with the physical installation of energy storage equipment for testing and verify correct and safe procedures prior to testing.
- Maintain a knowledgebase of various system issues and possible resolutions.



- Coordinate activities with local and remote product development team members.
- Advise on and assist with the development of deployment procedures to properly configure and test commercial projects during the construction and commissioning phases based on certification testing experience.
- Provide technical assistance and support for commercial projects during the construction and commissioning phases.
- Select and attend training and workshops as appropriate.

## QUALIFICATIONS

The preferred candidate will have bachelor's degree in a technical field and should be capable of managing and analyzing large data sets, possess quantitative analytic skills and have proven skills in testing and troubleshooting. Five years of related work experience with at least 3 years in the power/energy/renewables sector is required. Additional relevant work experience in lieu of bachelor's degree will be considered.

The ideal candidate will possess:

- A solid understanding of both AC and DC electric power systems is required. Experience with Low Voltage (<600V) and Medium Voltage up to 13.8kV is beneficial. Familiarity with electrical devices such as battery charging systems, motor drives, solar inverters, or wind power converters is preferred.
- Hands-on work experience testing with electrical equipment and/or power electronics above 240V is preferred.
- Technical expertise and experience with: battery systems, lithium ion batteries, inverters, motor drives, ungrounded power systems, battery management systems, oscilloscopes, Matlab, Ruby, and SCADA systems.
- Strong interpersonal communications skills with an ability to coordinate with diverse global 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.
- Entrepreneurial drive for getting things done and a "whatever it takes" attitude.
- Has excellent English verbal and writing skills; international work experience is a plus.