

Panasonic Energy of North America

<http://www.panasonicbatteryproducts.com>

POSITION TITLE: Production Electrical Engineer

POSITION LOCATION: Sparks, NV

POSITION DESCRIPTION:

Panasonic Energy of North America (PENA) is collaborating with Tesla Motors to construct a large-scale advanced battery manufacturing facility known as the Gigafactory near Reno, Nevada, which is known for its quality of life and expansive outdoor adventures. Panasonic's role in the Gigafactory will be to manufacture and supply cylindrical lithium-ion cells and based on the battery demand from Tesla, the Gigafactory is planned to produce cells which will double the world's current population. The Production Electrical Engineer designs and directs installation of mechanical or electromechanical production equipment by performing duties which include, but are not limited to:

- Analyzing product or equipment specifications and performance requirements to determine designs which can be produced by existing manufacturing or processing facilities and methods
- Determining feasibility of designing new plant equipment or modifying existing facilities considering costs, available space, time limitations, company planning, and other technical and economic factors
- Providing technical information concerning manufacturing or processing techniques, materials, properties, and process advantages and limitations which affect long range plant and product engineering planning
- Conferring with research personnel to clarify or resolve problems and developing design
- Preparing or directing preparation of product or system layout and detailed drawings and schematics
- Directing and coordinating manufacturing or building of prototype product or system
- Compiling and analyzing operational, test, and research data to establish performance standards for newly designed or modified equipment or product
- Planning and developing experimental test programs
- Analyzing test data and reports to determine if design meets functional and performance specifications
- Conferring with research and other engineering personnel and preparing design modifications as required
- Evaluating engineering test results for possible application to developments of systems or other uses
- Familiar with wiring, cabling size, terminations, and load/temperature requirements
- Familiar with industrial machinery design and related NFPA codes such as 70 and 79 (and related UL standards for industrial machinery)
- Knowledgeable regarding electrical requirements in hazardous locations (Class I, Div 2)
- Experience with 480 V panel installations
- Control system troubleshooting
- PLC programming experience (Ladder Logic)
- Control wiring design

- Electrical troubleshooting and diagnostics
- Experience with energy usage and optimization

PREFERRED QUALIFICATIONS:

- Bachelor's degree in mechanical or electrical engineering or closely related field from four-year college of university
- Five or more years related experience and/or training
- Skill and know-how regarding production engineering by experience in United States company
- Understanding of electrical hardware
- Understands drawings, sequence control, and software design
- Skill and know-how regarding start-up of building, power equipment, and manufacturing facilities through experience in a United States company
- Knowledge and handling about American environmental laws and UL (Underwriters Laboratories)
- Ability to cooperate and work with related departments including overseas, Japan
- Utilize strong computer skills in Word, Excel, and PowerPoint to put together proposals, project planning, and status updates and executive presentations
- Ability to read, analyze, and interpret common scientific and technical journals, financial reports, and legal documents
- Ability to respond to common inquiries or complaints from customers, regulatory agencies, or members of the business community
- Ability to effectively present information to top management
- Ability to apply advanced mathematical concepts such as exponents, logarithms, quadratic equations, and permutations
- Ability to apply mathematical operations to such tasks as frequency distribution, determination of test reliability and validity, analysis of variance, correlation techniques, sampling theory, and factor analysis
- Ability to define problems, collect data, establish facts, and draw valid conclusions
- Ability to interpret an extensive variety of technical instructions in mathematical or diagram form and deal with several abstract and concrete variables

HOW TO APPLY:

Interested applicants should apply [online](#).