

# Electrical Systems & Architecture Engineer - Energy Products

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**Location:** Palo Alto, California

**Req. ID:** 121599

**Job Type:** Full-time

## The Role

The Tesla Energy Products team is bringing battery and solar technology to the grid to facilitate a renewable energy ecosystem and redefine the way the world will use energy in the future.

As part of the Systems & Architecture team, you are the design leadership that defines and leads Tesla's strategy to meet those goals by leveraging your physics fundamentals, systems optimization thinking, simulation tools and common sense. This role involves collaboration with designers, engineering, manufacturing, sales and finance and requires the ability to distill highly technical information and effectively communicate with other teams and management.

Our team is small, committed, fast moving and we believe a diverse team of motivated individuals can accomplish almost anything. We are problem solvers, team players and game changers. If this sounds like you, Tesla just might be the place to make your mark!

## Responsibilities

- Own development of system requirements, distributes function and performance to components within systems, defines system hardware and software architecture, defines electrical, mechanical, and communication interfaces for components to meet those goals.
- Support definition of system hardware and software architecture optimization for Powerwall, Megapack and Supercharger.
- Define electrical, mechanical, and communication interfaces for components.
- Track key design decisions to establish roadmaps for products variants.
- Capture requirements in a formal management tool.
- Lead and contribute to design reviews for development efforts,
- Develop test plans for design validation.
- Create standards and templates for efficient workflows.
- Implement tools for requirements and validation tracking.
- Develop systems and best practices for communication and change management.

## Desired Skills

- BS, MS or PhD in physics, electrical or mechanical engineering.
- Fundamentals in power electronic and battery technology.
- Solid engineering fundamentals – electrical, mechanical and thermal.
- Systems level thinker with evidence of driving product design optimization across products, disciplines and teams
- Specification definition (dimensional, functional, performance, manufacturing).
- Experience defining test plans, designing test setups, and analyzing data.
- A detail-oriented personality with solid documentation and reporting skills.
- Experience solving open-ended engineering problems.
- Motivated, active collaborator.



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### Apply Directly:

<https://www.tesla.com/careers/search/job/electrical-systems-architecture-engineer-energy-products-121599>

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