

# Job Posting

**Smartville, Inc.**

Carlsbad, CA

## Electrical Design Engineer

Smartville is a rapidly growing renewable energy company located in sunny Carlsbad, CA. We are seeking an enthusiastic and energized Electrical Design Engineer who has a strong knowledge of complete electrical design life cycles to join our Smartville Team. Smartville offers a host of benefits including Health Insurance, Vision, Dental and Paid Time Off. Come work for a company that has created a culture that truly values the employees and their contributions to Smartville's mission. The Electrical Design Engineer will work on developing power converter, power interface and energy management components for battery energy storage systems.

### Responsibilities

- Design, prototype, test, implement, and service unique battery high-voltage high-power interfaces, power converters and system assemblies.
- Lead complete electrical design life cycles from R&D to production, including spec definition, architecture development, electronic design, parts selection, prototyping, design validation and optimization.
- Work with mechanical, PCB layout, and firmware engineering teams to successfully design, validate and manufacture high-power electronics components.
- Develop test specifications, support design verification and production validation testing for electrical, mechanical, and thermal systems.

### Requirements

- Electrical system integration experience with DC power systems.
- Experience with high voltage high power system safety requirements.
- Experience with digital and analog circuit design and PCB layout.
- Experience with electrical analysis using Spice, Mathcad, PLECS, and other tools.
- Experience working with firmware developers.
- Experience with control implementations on real-time operating systems (RTOS).
- Experience with communication protocols (i.e. UART, SPI, CAN) and their development environments.
- Experience with mechanical and electrical CAD.
- Understanding of electronics packaging design.
- Familiarity with wire harness design / 3D routing.
- Familiarity with methods of battery manufacturing and assembly.
- Familiarity with battery management systems.
- Familiarity with switchmode power converters and their integration into high power systems.

**If you are interested in applying for the Electrical Design Engineer position, please email your resume and cover letter to [Kim@smartville.io](mailto:Kim@smartville.io)**

"Smartville Inc. is proud to be an Equal Opportunity employer, and we embrace diversity and equality. We are committed to building a team with a variety of backgrounds, skills, and points of view. Smartville Inc. provides a work culture that is consistent with mutual respect and employment opportunities for all applicants, regardless of applicant's race, religion, age, gender, gender identity, sexual orientation, national origin, culture, disability status, military status, or any other protected class applicable by federal and state laws."