Position Description

Position Title: Electrical Designer I
Department: Engineering
Location: Escondido, CA
Job Code: 17A1001
Full/Part-Time: Full-Time
Regular/Temporary: Regular

Transportation Power is a leader in the development of cutting edge, advanced medium and heavy duty electric vehicles (EV’s), hybrid-electric vehicles (HEV’s) and grid energy storage applications. Its advanced technology outperforms competing systems for the most demanding heavy-duty vehicles, including the largest Class 8 on-road trucks, yard tractors, port cargo handling vehicles, and school buses.

Transportation Power offers competitive compensation, excellent benefits, including a 401K with employer match, and professional development opportunities. This is an exciting opportunity to work with a highly skilled, interdisciplinary team that is passionate about innovating to develop conversion technologies to improve efficiency, reduce fossil fuel consumption and improve the environment. To learn more about Transportation Power, visit our website at http://www.transpowerusa.com/

Job Description:

TransPower is seeking an Electrical Designer to join our team in Escondido, CA. The successful applicant will work in the Vehicle Engineering area. TransPower supports a diverse portfolio of customers throughout California. The engineering team is responsible for design and packaging of powertrain, accessory and battery systems. Typical duties and responsibilities for this position are in the areas of electronics harness design, creating electrical schematics and troubleshooting wiring issues on vehicles.

Minimum Qualifications:

- Able to use basic electrical equipment such as a digital multimeter, power supply and data loggers
- Must be able to read and understand electrical schematic
- An understanding of modern automotive or heavy duty electrical systems
- A working knowledge of J1939 CAN physical layer
- Experience troubleshooting electrical systems
- A working knowledge of basic electrical components like a resistor, diode, relay and TVS’s
• Detailed oriented
• Must be able to produce electrical schematic from scratch
• Skilled in use of illustrations programs like Visio, Solidworks Electrical, Vesys or illuminator
• An understanding of analog signals
• A working understanding of harness routing design for low and high voltage
• The ability to follow design standards like SAE, IEEE and NEC

**Desired Qualifications:**

• Knowledge of High Voltage in floating DC, AC and mixed systems
• Experience specifying of high and low voltage electrical components
• The ability to produce service documentation

**How to Apply:**

Reference Job ID#17A1001. Submit resume and cover letter with explanation of related experience, as one document to recruiting@transpowerusa.com.

Transportation Power is an Equal Opportunity Employer. Employment is based on business needs, merit, performance and competence. We do not discriminate on the basis of race, color, religion, marital status, age, national origin, ancestry, physical or mental disability, medical condition, pregnancy, genetic information, gender, sexual orientation, gender identity or expression, veteran status, or any other status protected by law.