

Job Description

Job Title: Senior Application Engineer

Coulomb Solutions Inc. (CSI) provides innovative electrification solutions for commercial vehicles including advanced Li-ion HV batteries, battery heating and cooling systems, electric air conditioning compressors, electric steering pumps, electric air compressors for braking, DC/DC converters, accessory inverters, and onboard AC and fast DC chargers. As our cornerstone, CSI is the authorized North American distributor of commercial vehicle batteries for the largest Li-ion battery designer and manufacturer of the world, CATL. CATL's batteries currently power more than 150,000 buses and trucks in daily operation in demanding environments and terrain with some of the largest commercial fleets. Our goal is to enable the fast adoption of commercial electric vehicles operating on green and sustainable energy sources to help transform our Earth to a pollution-free planet.

In order to continue to provide our customers with high-quality, environmentally friendly electrification solution products, our company needs the professional services of a **Senior Application Engineer** to assist in product development and engineering improvements regarding power usage and interfacing between software and hardware. The Senior Application Engineer will help support the design and development of our customized industrial display product solution packages by studying customers' specifications and testing their feasibility. The Senior Application Engineer will also support our company by designing, analyzing, and explaining technical components of proposed projects and products as well as assisting in resolving technical issues that customers may have.

Specifically, the Senior Application Engineer will be responsible for the following duties:

- Conduct technical analysis and design of electrification solutions for commercial vehicles, focusing on advanced Li-ion HV batteries, battery heating and cooling systems, DC/DC converters, accessory inverters, etc.
- Collaborate with cross-functional teams to gather solution product requirements and develop specifications for new products or product enhancements.
- Perform feasibility studies and technical evaluations to ensure the suitability and performance of electrification solutions for different commercial vehicle applications.
- Conduct mechanical design and engineering calculations to support the development and optimization of electrification components and systems.
- Analyze and interpret test data, identify areas for improvement, and propose design modifications or optimizations to enhance system performance and efficiency.
- Collaborate with internal and external stakeholders to address technical issues, resolve challenges, and implement corrective actions during the integration and testing phases.

- Provide technical support to customers, including commercial vehicle OEMs and fleet operators, during the integration, installation, and operation of electrification solutions.
- Prepare technical documentation, including product specifications, engineering reports, design guidelines, and application notes.

Minimum Requirements:

- Master's degree in electrical engineering, mechanical engineering, or a closely related field.
- 24 months of work experience in application engineering design and testing of automotive systems and parts in the automotive industry, including on-vehicle testing, calibration development with CAN tool.
- Proficient in MATLAB, and CAD software including Solidworks and Creo Parametric.

This is a full-time position. The salary is **\$114,546 to \$125,000** per year. Send resume to lining@coulombsolutions.com or Coulomb Solutions, Inc., c/o Lining Zhou, 6013 Las Positas Rd., Livermore, CA 94551.