

Sr. Electrical Engineer - Hybrid Electric Vehicle Systems: Energy Storage and Power Electronics

Hybrid Design Services, Inc. (HDS) is seeking highly-motivated engineers with hybrid & electric vehicle electronics experience. Energy Storage Systems (NiMH, Li, and Ultra-capacitors), Energy Management Systems (BMS, controllers, etc.), and Power Electronics (inverters, converters, etc.) are the key areas of focus. The candidate should have practical experience in one or more of the following areas:

- Battery/Capacitor Management System design & controls (SOC, SOH, SOL, Isolation, etc.)
- Energy System Development & Testing (Packs/Modules/Cells)
- Vehicle Integration (Packaging, Interfaces, Communication, Diagnostics, etc.)
- High Voltage System Specification and Design (HVIL, Isolation, etc.)
- Circuit design at the board level
- Hybrid System Engineering (Requirement & Specifications, DFMEAs, DVPs, etc.)
- System Calibration & Troubleshooting

Job responsibilities include the design/development of High Voltage Systems (Batteries, Ultracapacitors, Inverters) for hybrid electric vehicles and renewable energy systems. The candidate should have good communication skills and client management/interpersonal skills.

Required Qualifications:

Major required: Master's Degree in Electrical Engineering

Areas of focus: Controls, Systems Engineering, Design

Type of position: Full-Time, Permanent

Compensation: The ideal candidate will have an attractive salary and benefit package

Location: Troy, Michigan – 48083

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