SENIOR ELECTRICAL ENGINEER

ABOUT KLD:

KLD Energy – Austin Based KLD Energy Technologies designs and licenses a patented, high-performance electric motor system technology. The Company's cornerstone technology is a high-frequency, low RPM transmissionless motor system that increases the speed and efficiency of electric vehicles.

KLD Energy Technologies' mission is to transform transportation and decrease pollution through high performance electric motor systems. The Company's technology represents a paradigm shift in motor design, enabling the production of highly efficient, environmentally friends two and three wheeled vehicles.

KLD is always seeking brilliant employees with an entrepreneurial spirit, who are looking for a work culture where innovation is the goal, hard work is expected, and creativity is rewarded.

OVERVIEW:

Design, develop, and test electric motor drive systems used in electric propulsion system. Design electronic circuits including signal conditioning circuits, analog filters, gate drivers for solid-state switches, digital signal processer/micro-controller interface circuit, etc.

QUALIFICATIONS AND KNOWLEDGE:

- *Requires a bachelor's degree or higher in Electrical Engineering specialized in Electric Motor Drives, Power Electronics, and Control Systems*
- *7-10 years of experience in the field or in a related area*
- *2-3 years direct experience with electric motor drive systems greater than 2.5kW*
- *Membership to a professional society is recommended*
- *A fundamental understanding of control systems applied to three-phase electric motor drives*
- *A solid understanding of digital signal processing concepts*
- *Experience with high-power FETs, IGBTs, and other solid state switching devices*
- *Electric or hybrid electric vehicle engineering experience a plus*
- *Display familiarity with serial communication protocols (i.e. CAN and RS232)*
- *Knowledge and experience with high current energy storage systems*
- *Knowledge and experience with various Li-Ion based battery chemistries and battery management systems*
- *Experience with magnetic circuit analysis and design*
- *A working knowledge of IPC and other electronic industry standards*
- *Proven ability to meet tight deadlines and work under pressure and on own initiative to get things done*
- *Experienced with EMI management and proper grounding techniques*

ESSENTIAL DUTIES AND RESPONSIBILITIES:

- *Test and troubleshoot electric drive train at the system and subsystem level.*
- *Custom design electronic test equipment to evaluate electric drive train system efficiency and performance.*
- *Gather and post-process experimental data and summarize results via concise engineering reports.*
- *Provide oversight and sign-off on circuit designs, BOMs, and PCB layouts.*
- *Participation in complete system integration of electric drive train.*
- *Responsible for generating specifications and review of 3rd party vendor subsystem designs.*
- *Test and debug PCBs and electric drive train system.*
- *Ensure design is in compliance of specifications, industry standards, and customer requirements.*
- *Prepare and study technical drawings and specifications of electrical systems to ensure that installation and operations conform to standards and customer requirements.*
- *Inspect completed installations and observe operations, to ensure conformance to design and equipment specifications and compliance with operational and safety standards.*
- *Investigate and test vendors' and competitors' products.*

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LOCATION:

- *Austin, Texas*
- *Local candidates preferred*
- *No relocation or visa sponsorship is available*

COMPANY

KLD Energy

INDUSTRIES

- *Energy and Utilities*
- *Manufacturing - Other*
- *Engineering Services*

JOB TYPE

- *Full Time*
- *Employee*

YEARS OF EXPERIENCE

- *7-10 years of field related experience*
- *2-3 years direct experience with switching power supply system design preferred*

EDUCATION LEVEL

- *Bachelor's Degree*

CAREER LEVEL

- *Experienced (Non-Manager)*

JOB REFERENCE CODE

- *SEE-A010511*