

Senior Electrical Engineer

JOB DESCRIPTION

Job ID#: 2020-06A
Regular/Temp: Regular
Full-Time/Part-Time: Full-Time
Submit Reply and Resume to: CMEHR@custom-mfg-eng.com

1st Step of candidacy requires **completion** of an online assessment: <https://assess.predictiveindex.com/ejY86>

Job Summary: We have an exciting opportunity in sunny Florida for the right person to become our Senior Electrical Engineer to be the quality leader in CME. **As the Senior Electrical Engineer you will provide support to commercial, industrial, or military customers for cable harnesses, control boxes, PCB layout, electrical assemblies, power conversion and distribution equipment to develop designs of existing & new products, standards, meet customer requirements/expectations and expand CME's products & services. The Senior Electrical Engineer will work with various departments to ensure that all design and testing efforts are completed on budget, schedule, while increasing value to customers and the CME brand.**

Candidates **MUST** have experience in engineering and manufacturing industry particularly of **electronic/electrical components. Familiarity with control panels, PCBs, electrical assemblies, power conversion and distribution equipment.**

This specialized, technically oriented position must continuously meet and exceed high standards of accuracy and quality based on established systems, technologies and guidelines. Strength in technical problem solving based on expertise and experience, and a strong commitment to efficiently achieve high quality results is required. A thoughtful, persevering, self-disciplined approach to achieving accurate, detailed work is essential for success.

Job Characteristics:

- Competent use of schematic capture and PCB design application tools.
- Varied activities Multiple, simultaneous projects and tasks Continual problem/solution identification Fast-paced environment
- Technical/analytical focus Work within established systems, standards, and procedures Communication based on job knowledge and expertise
- Authoritative, quick decision making within defined span of control Focused on established systems and technologies Fact-based, solution oriented Minimal risk taking
- Focused on job knowledge and expertise Must provide clear, direct, authoritative direction to others Need for collaboration is minimal, when necessary it is task focused, and this person's role is to provide primarily technical, analytical skills to the team
- Leadership focused on efficient, accurate, quality work output Requires a strong, authoritative leadership style Job requires close control of process, tasks, and results Delegated tasks must be closely measured and monitored

DUTIES AND RESPONSIBILITIES

- Design and test AC & DC circuits by performing detailed calculations and/or circuit analysis to meet performance requirements and manufacturing costs.
- Create test plans and test bench designs to support product acceptance testing.
- **Write technical documents such as proposals and procedures for operations and bid & proposal activities.**
- **Create new electrical designs for power supplies, power conversion, and power distribution to customer, CME, and IPC standards.**
- **Update/Upgrade existing electrical designs through thorough analysis and incorporation of design improvements and elimination of obsolescence issues.**
- **Develop advanced systems & controls: products, parts, specifications, circuits in a timely and efficient manner to meet cost, customer, and quality standards.**
- Administrate root-cause investigation & analysis, implement corrective, preventative action process and approval, then determine system improvements and implement change(s)
- Prepares and completes action plans tied directly to continuous improvement initiatives driving cost and quality improvements throughout the organization
- Support product realization; participate in design reviews, and implement changes.
- Ability to Multi-Task and Meet Deadlines

JOB QUALIFICATIONS

- **MUST have experience in engineering and manufacturing industry particularly of electronic/electrical assemblies-components-systems.**
 - **Familiarity with control devices, power devices, control relays, sequencing control, timer control, pressure control, and circuit applications.**
- **Works independently to solve problems bringing solution options for issue resolution**
- **Ability to read & interpret specs, drawings/schematics, and part lists including prior experience with electrical, electronics, and/or mechanical components for build requirements**
- **High Energy Person able to work in a changing environment while meeting multiple deadlines**
- **Strong knowledge of Quality Systems and QMS**
- **Strong analytical and computer skills for various reports on product and process quality, including Word, Excel, PowerPoint**
- **Ongoing identification of technical problems and the development of sound, carefully thought-out solutions.** Problem solving is focused on proven systems and technologies and established organizational relationships. Solutions should minimize risk to the organization and utilize existing resources.
- Must possess Knowledge & Experience with:
 - Electrical and mechanical requirements of MIL-STDs, NEC, NFPA, J-STD-001, and IPC-A-610
 - Power Switching
 - Control Systems
 - Wire Harness Electrical Design
 - Thermal Analysis

- Component Modeling
- Packaging & Altitude Considerations
- Network Simulation
- Environmental & Reliability of Electronic Systems, Electrical/Electronic Components, & Power Conversion
- Magnetic Design & EMI Emissions

MINIMUM REQUIREMENTS NEEDED:

- 5-7+ years of experience in analog design, preferably for industrial and military electrical system design, power distribution, power supplies, electronic test equipment for troubleshooting, diagnose failed components/products, risk assessments, and failure analysis.
- BS/BA in Electrical Engineering or related field from an Accredited College/University
- Positions with CME require access to controlled goods and technologies subject to the International Traffic in Arms Regulations or the Export Administration Regulations. Applicants for these positions need to be "U.S. Persons," as defined in these regulations. Generally, a "U.S. Person" is a U.S. citizen, lawful permanent resident, or an individual who has been admitted as a refugee or granted asylum.

Travel Percentage Required: None expected. 10% - 15%

An award winning Tampa Bay small business for two decades, Custom Manufacturing & Engineering, Inc. (CME®) delivers Engineering, manufacturing, test, and calibration/repair services to Government and Industry. Join us at CME, where one can "Use Our Expertise to Design & Build Your Solutions" CME's culture is embodied by Core Values that are focused on: Serving the customer while protecting CME, delivering quality products and services as required, solving problems, working with energy and passion, and encouraging and developing employees that challenge themselves.

As a strong supporter of Science, Technology, Engineering and Math (STEM) and other select charitable initiatives, CME promotes and encourages employee community support to nonprofit organizations or educational institutions, especially for mentoring and school/student support. Most of CME's products and services are focused on the development and manufacturing of energy efficient and sustainable products such as more efficient power supplies, intelligent power distribution units, energy saving solar panels, and other electronic systems, end products, or components. (www.custom-mfg-eng.com).

CME is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, pregnancy, sexual orientation, gender identity, national origin, age, protected veteran status, or disability status.

As a U.S. defense contractor CME is also subject to additional rules and regulations regarding the hiring of foreign persons. In compliance with U.S. federal law, all persons hired will be required to verify identity and eligibility to work in the United States; CME cannot accept any person for employment who does not meet employment eligibility requirements, E-Verify verification, and/or is in the U.S. under a student (F1 and/or OPT, J1, or M1) and/or temporary work visa. For the purposes of clarification, the I-9 defines eligibility of an employee as a: U.S. citizen, permanent resident card or alien registration card (Form I-551), a person with a temporary I-551 stamp on their passport or U.S. immigrant visa, and/or passport from the Federated States of Micronesia (FSM) or Republic of the Marshall Islands (RMI) with Forms I-94 or I-94A indicating nonimmigrant admissions under Compact of Free Association between the U.S. and FSM or RMI.

Removal Date: 31-March-2020