



## **Sr. Mechanical Engineer**

This position is located at the Headquarters in Henderson, Nevada. This job is a full-time and on-site position; other candidates will not be considered.

This position requires U.S. Citizenship.

VadaTech, Inc. is seeking candidates for a **Sr. Mechanical Engineer** position. The Sr. Mechanical Engineer position will have experience related to electronic packaging of board level, chassis level and system level products. Responsibilities include design, analysis and testing of product design for use in military, telecom and high energy physics applications. Ability to lead support personnel in the preparation of detailed design, testing and prototype fabrication. Provides design information to drafting for packaging documentation.

### **Essential Functions:**

Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- Work closely with colleagues from product development, manufacturing and product management performing a multitude of activities throughout the product development lifecycle ranging from product design to field support.
- Design of electronic enclosures to meet product specifications for end use in military and commercial applications.
- Perform board level design support such as PWB outlines, front panels, overlays & heat sinks.
- Coordinate technical support tasks with Electrical Engineering on board level and chassis level projects.
- Generate test procedures for environmental testing of products.
- Provide technical oversight to in-house vibration, shock and thermal test programs.
- Support generation of 3D printed parts including model generation, build and post process operations.
- Provide support to resolve manufacturing and assembly issues necessary to keep schedule commitments.
- Manage new product development bill of materials and serve as an engineering interface for Manufacturing.
- Generate full fabrication detail drawing package for complex electro-mechanical devices.
- Update drawings through Engineering Change Orders. Maintains revision control for required changes
- Check work of MCAD team. Ensure the design and drafting support, documentation and associated engineering support services are performed in-line with departmental and industry practices.
- Analytical evaluation of design (structural, thermal, fluid flow, vibration & shock)
- Participate in peer and technical reviews.
- Participate in vendor and customer meetings and presentations.
- Perform thermal simulation using Solidwork Flow Simulation or Ansys Icepak using CFD tools.
- Provide technical oversight and mentors employees performing professional technical duties related to Mechanical Engineering.
- Support continuous improvement initiatives and adheres to the VadaTech Quality System.
- Maintains knowledge in area of specialization, keeps abreast of developments in the field.

### **Required Qualifications/Skills:**

- Must be a United States Citizen.
- BS in Mechanical Engineering or related technical field is required.
- 8+ years of related experience.
- Proficiency in 3D solid modeling software required (Solidworks preferred).
- ANSYS finite element analysis or similar tool experience a plus.
- ANSYS Icepak or SW Flow Simulation CFD experience a plus.
- Good working knowledge of dimensioning and geometric tolerances
- General knowledge of standard design principles related to sheet metal and machining manufacturing processes.
- Experience designing rack mount equipment and ATR type enclosures a plus.
- Experience with PICMG ATCA and  $\mu$ TCA specifications a plus. Experience with ANSI/VITA standards a plus.
- Utilize computer skills to prepare appropriate reports and documents. (MS Excel, Word, PowerPoint).
- Hands-on experience designing, prototyping, testing and implementing components and designs.
- Ability to establish priorities, work independently, and proceed with objectives with limited supervision.
- Must be able to provide timely technical support to internal functions in a fast-paced work environment.
- Communicate effectively both orally and in writing.
- Exhibit sound interpersonal skills required in effectively interfacing and coordinating with company personnel, customers and suppliers.
- Must be able to work on many different projects at one time and be results-oriented.
- Demonstrated critical thinking, analytic skills and problem solving.
- Must be accurate, detail-oriented, and organized.
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- Must be accurate, detail-oriented, and organized.
- Effective composition, documentation, and presentation skills.

### **Physical Demands:**

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of the job.

- Environment: Indoors, mainly in office areas.
- Sitting and standing for long hours.
- Ability to move around the facility, climbing stairs as necessary, bend down and reach up.
- Frequently communicates with others; must be able to exchange accurate information verbally and in writing.
- Constantly operate a computer and other standard office equipment such as phones, photocopiers, filing cabinets and fax machines.
- Ability to handle and lift objects weighing up to 25 lbs. alone; ability to lift objects weighing up to 50 lbs. in a two-person lift.

### **Mental demands:**

- Read or write and interpret data

**Competitive compensation and benefits which include medical/dental/vision insurance, 401k with employer contribution, PTO, paid Holidays and an on-site fitness center.**

***Interested qualified candidates should submit their resume,***

***cover letter and salary requirements to [vjobs@vadatech.com](mailto:vjobs@vadatech.com).***

The above information on this description has been designed to indicate management's assignment of essential functions and level of work performed by employees within this classification. It is not designed to contain or be interpreted as a comprehensive inventory of all duties, responsibilities and qualifications required of employees assigned to this job. Nothing in this job description restricts management's right to assign and reassign duties and responsibilities to this job at any time.

VadaTech provides equal employment opportunities (EEO) to all employees and applicants for employment without regard to race, color, religion, creed, gender, sex, sexual orientation, gender identity, gender expression, national origin, age, disability, genetic information, marital status, socio-economic status, amnesty, status as a covered veteran and any other class protected by applicable federal, state and local laws. The company complies with applicable state and local laws governing nondiscrimination in employment in every location in which the company has facilities. This policy applies to all terms and conditions of employment, including hiring, placement, promotion, termination, layoff, recall, transfer, leaves of absence, compensation and training.

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