

Job Title	Mechanical Engineer Sr.
Department	Engineering
Requisition Number	ENG-ME1



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### **Job Summary:**

Perform mechanical design and analysis functions for products spanning multiple industries. Utilize CAD design and FEM software as required. Provide technical direction to junior engineers. Develop complex mechanical designs through personal application of engineering principles and guidance/oversight of other engineers. Perform mechanical and structural analysis using FEA and classical methods and tools. Develop design layouts, technical design criteria standards, drawings, analysis reports, work statements, work hours estimates, and performance schedules to meet client requirements. Manage schedules, budgets, and provide technical oversight for projects. Check and approve designs and analysis. Interface with clients on behalf of KTM SOLUTIONS, INC. Utilize the principles of systems engineering in the development and management of specifications and customer technical requirements.

### **Impact:**

- Frequent contacts with industry peers, clients, client representatives, and decision makers regarding technical performance and progress, contractual performance and issues, and follow-on work requirements.
- Conducts technical briefings and meetings for both internal and external consumption.
- Provides guidance and direction for less experienced engineers.

### **Autonomy:**

- Works independently, requiring infrequent supervision.
- Provides guidance to junior engineers and is instrumental in the design and development of company technical policy and organizational goals.

### **Typical Minimum Qualifications:**

- Bachelor of Science degree in Mechanical Engineering from an ABET accredited university or college
- Ten (10) years mechanical engineering experience developing mechanical systems, structures, mechanisms, machines, or material-handling equipment
- Ten (10) years SolidWorks and/or CATIA V5 experience or equivalent demonstrated ability of other parametric CAD systems
- Five (5) years Finite Element Analysis experience
- Proven leadership and project-planning skills
- Strong written and verbal communication skills
- Professional engineering registration
- Compliance with KTM's core values:
  - Excellence - Nothing but the best
  - Heart of a teacher - Humble, caring, always ready to help
  - Innovation - Find a way, make it happen
  - Integrity - Saying what we mean and doing what we say
  - Passion - Love people, love your work

### **Preferred Qualifications:**

- Ability to work with diverse engineering disciplines and cross-functional teams
- Machine shop and/or fabrication experience

**Salary:**

Total compensation will include a base salary and bonus opportunity; base salary will be determined commensurate with experience. All full-time employees are eligible to participate in company benefits plan (group medical, retirement, and life insurance).

**Disclaimer**

The above statements are intended to describe the general nature and level of work being performed by people assigned to this classification. They are not to be construed as an exhaustive list of all responsibilities, duties, and skills required of personnel so classified. All personnel may be required to perform duties outside of their normal responsibilities from time to time, as needed.

**HOW TO APPLY** – Please complete an application, which can be downloaded from the KTM Solutions website: [www.ktmsolutions.com/careers](http://www.ktmsolutions.com/careers). Send a copy of your resume and completed application to [careers@ktmsolutions.com](mailto:careers@ktmsolutions.com). Subject of your e-mail response should include the requisition number (see job description header).

ALL CANDIDATES MUST POSSESS AUTHORIZATION TO WORK LEGALLY IN THE UNITED STATES WITHOUT COMPANY SPONSORSHIP.

**THE KTM SOLUTIONS EMPLOYMENT EXPERIENCE** – Exciting Challenges, Rewarding Careers

**Creative Freedom:** There is no substitute for passion and creativity. We strive to foster these traits by allowing our employees a great deal of creative freedom. We believe that creative freedom allows engineers to push the so-called limits and create the finest and most inventive designs they are capable of. You have the freedom to think outside the box and truly be an innovator.

**An Environment of Respect and Trust:** We understand true professionalism to mean mutual respect, responsibility, and trust in the workplace. These traits are foundational to our work environment.

**Flexibility:** Everyone works differently. We understand that people have different ways of fostering productivity. Because of this, we try to be flexible and let our employees choose their hours and create for themselves a work environment that is conducive to creativity and technical excellence.

**Diverse Challenges:** Our unique position in the engineering world means that our employees have the opportunity to work on a wide variety of technical design projects. Our service offerings give you the opportunity to work through diverse tasks and develop new skills every day. From airplanes and automotive parts to conveyors and automated machines, the ever-new challenges make every day fresh and exciting. You never know what you might encounter.

**Time Spent Doing What You Love:** As a company created by an engineer for engineers, we understand that experimentation, design, and creation lie at the heart of engineering. True passion and innovation should not be hindered by hoops, ladders, and whistles that must be jumped through, climbed, and yielded to. No bureaucracy. We enable you to spend your time doing what an engineer is meant to do: creating and innovating.

**THE COMPANY:**

KTM utilizes a staff of registered mechanical engineers (PE) that are qualified in the design and analysis of advanced machines, fixtures, lifting systems, and mechanical structures. We design and analyze for sufficient strength, optimal mechanical performance, and safety in accordance with industry standards and governmental regulations.

Employee Name			
Employee Signature		Date	