



1. **Job Title:** *Mechanical Engineer*

2. **Company Description:** Kaney Aerospace is a veteran owned business located at the Chicago/Rockford International Airport in Rockford, Illinois. Kaney Aerospace, a member company of the Kaney Group since 2005, specializes in engineering services and laboratory operations, test equipment design and manufacture, aircraft component repair and aircraft flight-line installation support. Kaney Aerospace was named the 25<sup>th</sup> fastest growing engineering company in the 2011 Inc. 5000 list in Inc. magazine. The Kaney Group includes Ardekin Precision, an AS9100 certified company specializing in low volume/high mix manufacturing and assembly for the aerospace community.

3. **Role Description/Summary:** This opportunity is for a mechanical engineer in the Rockford, Illinois area for design, support and test of moderate to high complexity industrial turbine components such as control valves (gas, liquid, water) and IGV/VGV actuators.

4. **Major Responsibilities:**

- Identify appropriate analysis of mechanical designs, identify and minimize risk and liaise with appropriate specialist engineers (Stress, Materials, Manufacturing, etc.)
- Provide technical expertise to project teams and other functional groups in support of new and mature products
- Fully document designs, prepare design schemes and attend or conduct design reviews
- Ensure that mechanical designs meet requirements with regard to technical, cost, reliability, environmental and maintainability criteria
- Offer sound technical solutions to problems and review and approve associated manufacturing drawings and acceptable deviations
- Evaluate design alternatives culminating in optimal solution selection
- Prepare new test procedures, engineering changes and process studies
- Assist in providing timescale estimates in the compilation of project plans and milestones for mechanical design activities
- Generate and execute performance calculations
- Provide internal mentoring and communication, assuring compliance to rules and regulations
- Participate in and promote process improvements

5. **Qualifications / Requirements:**

- BS degree in engineering
- 1 year experience up to more than 8 years of mechanical engineering experience
- Practical knowledge and application of:
  - fluid dynamics
  - material stress and strength theory
  - 2D and 3D CAD applications
  - dimensional stack up study



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- Geometric Dimensioning & Tolerancing Industry standards (ASME, ASTM, MIL, NAS, etc.) and regulatory compliance
- Practical knowledge of theory and application of some or all of the following:
  - Electro-hydraulic servo-valves
  - Hydraulic actuators (single/double acting)
  - Fuel metering valves, shut-off valves, bypass valves
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- Effective written and verbal communication skills including presenting to various audiences
- Fluent in the English language
- US citizen or permanent resident

**6. Operational Details:** This is a first shift opportunity in Rockford, IL. Travel is not anticipated. Overtime may be required at times. Work will be performed in both an office environment as well as in a manufacturing environment (machining, assembly, and test). This position is primarily onsite at our customer. During this project, the customer may offer the candidate full-time employment as a direct employee. Alternatively, you will have the option of remaining in a direct position with Kaney Aerospace.

**7. Benefits / Compensation:** Kaney Aerospace offers a competitive benefits package that includes health coverage, company matched 401(K) retirement savings, and paid time-off for holidays, vacation and illness. Compensation is commensurate with qualifications and experience.

**8. Kaney Aerospace contact information:** Interested candidates should submit their resumes in MS Word, RTF or TXT format to: [info@kaneyaerospace.com](mailto:info@kaneyaerospace.com)

**9.** Kaney Aerospace is an equal opportunity employer.