



## Mechanical Engineer

### Company Description

Control Solutions Inc. is a small, dynamic, and rapidly growing company located in Aurora, Illinois. Our corporate slogan "INNOVATIVE SOLUTIONS FOR A WORLD IN MOTION" goes a long way in describing who we are. We design and manufacture a wide range of embedded controllers and control systems typically for motion control applications. We have standard products in motor control, battery chargers, and medical devices, but our forte is designing custom control systems for a wide range of applications. A high percentage of our products are used in the personal mobility market, medical applications and military applications. We take pride in the fact that we are highly successful in designing and manufacturing our products in America. We are also fast-to-market with a "can do" and positive attitude.

We provide competitive salaries, medical benefits, and a 401K plan with employer participation.

### Position Description

The Mechanical Engineer is responsible for all aspects associated with the mechanical engineering design of both prototype and production products. Areas of responsibility shall include the selection and or design of components and systems, including material selection.

#### **Primary Responsibilities/Accountabilities:**

- Design and model electromechanical components and systems. Electromechanical components include enclosures, brackets, cabling assemblies among others. Systems include mechanisms, sensors, hydraulics, among others.
- Select and/or design mechanical hardware components such as fasteners, latches, clips among others.
- Use ProE for CAD model and design. Use other advanced simulation programs, such as ProE Mechanism, when applicable.
- Perform static, dynamic, vibration, thermal, and other engineering analysis on mechanisms and other systems.
- Include manufacturability and cost in engineering analysis.
- Use DFMEA (Design Failure Mode Effects Analysis) and other process tools when applicable.
- Follow company internal processes.
- Work and coordinate work with vendors and customers.
- Design and perform experiments applying statistics.
- Specify materials and finishes to designed components for successful fabrication.
- Support materials in selecting and purchasing mechanical parts.
- Review and help build prototypes and pilot production units. Document prototype reviews.

### Education Requirement

Bachelor's degree in mechanical engineering.

FE (Fundamentals of Engineering) Exam. (preferred).

We are seeking candidates with solid knowledge of the fundamentals of mechanical engineering who can adapt quickly to a wide variety of projects and industries. Hands-on experience is a plus.

### Experience Requirement:

- 0-3 years of mechanical engineering experience

If you feel you meet these requirements, please forward your resume to [employment@controls.com](mailto:employment@controls.com) with "**Mechanical Engineer**" in the subject. Also include GPA. Control Solutions, INC is an EOE M/F/D/V employer. No phone calls or third parties please.