

# **Mechanical Design Engineer**

**Columbus Instruments is looking for a mechanical minded individual with a good imagination, seeking an opportunity to learn and grow. We manufacture instrumentation for monitoring behavior and physiology in lab animals as well as instrumentation for Environmental Research. Our products are sold all around the world. We have a very loyal group of employees, and we are looking to add to our amazing team.**

Research, develop, design, and test a wide range of mechanical equipment, both as standard products and with custom features, according to requirements of individual customers.

## **ESSENTIAL FUNCTIONS:**

- Work with design team and coordinate with electronic and software engineers to create design sketches, layouts, and schematics.
- Use 2D and 3D computer-assisted design (CAD) software such as Autodesk Inventor to create preliminary and detailed geometry and mechanical drawings of the product.
- Produce specifications for products and chooses raw materials and components to be used in production.
- Develop cost estimates based on specs and coordinate with suppliers.
- Builds models and prototypes of the product and tests the design.
- Develops control systems and monitors production.
- Other duties as assigned. Please note this job description is not designed to cover or contain a comprehensive listing of activities, duties or responsibilities that are required of the employee for this job. Duties, responsibilities, and activities may change at any time with or without notice.

## **REQUIRED JOB QUALIFICATIONS:**

- Bachelor's in Mechanical or Industrial Engineering a plus.
- 3+ years' of directly related experience required.
- 2+ years of experience with mechanical design software.
- Excellent mechanical, analytical, problem-solving, and technical skills.
- Excellent working knowledge of Windows, Microsoft Excel, and Microsoft Word.
- Self-starter with excellent organizational and communication skills.

## **WORK ENVIRONMENT & PHYSICAL DEMANDS:**

This position operates in an office and manufacturing setting. This role routinely uses standard office equipment such as computers, phones, photocopiers, filing cabinets and fax machines.

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. While performing the duties of this job, the employee is required to sit or stand as needed. This position may require walking primarily on a level surface for periods of time as well as reaching above shoulder heights or below the waist or lifting as required to file documents, pack orders or store materials throughout the workday.