



## **Mechanical CAD Engineer**

### **Job Description**

Intelon Optics is a rapidly-expanding world class technology and innovation company.

As part of the Mechanical Engineer team, you will be a key contributor to the mechanical design and development of a medical diagnostic Brillouin Spectroscopy system. You will design parts, components, and subassemblies in SolidWorks to bring clinically-tested research systems to final marketed product design. Working with vendors and a team of engineers, you will use your strong product development and design for manufacturing experience to conceptualize product configurations and robust opto- and electro- mechanical designs for highly sensitive instrumentation. Your hands-on skills will be an asset in design ideation, generating design specifications, mechanical drawings, assembly procedures, and testing component/assembly performance. The ideal candidate will be a well-rounded engineer that can also contribute in electromechanical considerations around motors, wire routing, power management, cost - reduction, design for manufacturing, etc.

In this fast-paced startup environment you will need excellent interpersonal skills, keen attention to detail, excellent communication/documentation, and ability to collaboratively and responsively, focusing on key priorities based on new information and product development timeline. You should have high energy and excitement to contribute to cutting-edge technology that improves medical care.

This role is based in our new state-of-the-art innovation center, located in Lexington, MA.

### **Responsibilities**

- Create tolerance part drawings, specifications, assemblies, and models in SolidWorks 3D CAD
- Working with other members of the mechanical design team, manage SolidWorks assemblies and BOM using PDM
- Interface with rapid and precision machine shops to get parts fabricated to specifications
- Document designs and inspection procedures.
- Build and test assemblies/fixtures to verify your designs.
- Execute design reviews, manage bills of materials, inventory, and create necessary documentation per ISO 13485 regulations
- Work with electrical, optical, systems, software, and industrial design engineers to integrate subsystems into designs.
- Interface with suppliers or outside engineering groups as necessary to complete projects

### **Minimum Qualifications**

- Expert user of SolidWorks CAD. Ability to rapidly navigate and generate parts and documentation per specifications.
- B.S. in Mechanical Engineering
- 5+ yrs. industry experience in mechanical, electromechanical, or optomechanical system design in a tightly regulated environment (e.g. medical device, defense, aviation/automotive).
- Proficiency and proven track record in design for manufacturing of complex system and subassemblies with tight mechanical and thermal tolerances
- Generate precision tooling and test fixtures for testing of opto- and electro- mechanical

### **Preferred Additional Qualifications**

- Familiarity or further education in optomechanical system design considerations and best practices
- Experience in one or more of the following optical systems: spectroscopy, interferometry, laser-based scanners, or camera imaging systems
- Design and tooling for manufacturing and w/in a manufacturing environment
- Ability to perform FEA stress and thermal analysis
- Experience designing for medically regulated designs and considerations for product traceability.

### **Benefits**

Competitive salary and benefits with company incentive plan.

As part of our dedication to the diversity of our staff, Intelon Optics, Inc. is committed to Equal Employment Opportunity without regard for race, color, national origin, ethnicity, gender, protected veteran status, disability, sexual orientation, gender identity, or religion.

### **To Apply**

Please email [team@intelon.com](mailto:team@intelon.com) with your resume and a cover letter attached.