

**Second Sight Medical Products, Inc.** (<http://www.2-sight.com>), located in Los Angeles, California, was founded in 1998 to create a retinal prosthesis to provide sight to patients blinded from outer retinal degenerations, such as retinitis pigmentosa (RP). Through dedication and innovation, Second Sight's mission is to develop, manufacture and market implantable visual prosthetics to enable blind individuals to achieve greater independence. The FDA-approved Argus™ II Clinical Trial was initiated in Mexico in 2006 with a two-patient pilot study, followed by a 30-patient trial in Europe and the United States. The results that were recently presented from the trial showed that the Argus II System provided significant improvements in vision for the blind subjects who are suffering from profound retinitis pigmentosa (RP). This is the most clinical experience of any retinal prosthesis ever developed. In February 2011, Argus II became the first such treatment for the blind to obtain the CE Mark and make the leap from research to the marketplace in Europe. An application for FDA approval in the US is being submitted in 2011. The European Headquarters are in Lausanne, Switzerland.

**Second Sight has a number of job openings for experienced, motivated and self-starting engineers.**

### **1. Senior or Principal Quality Engineer:**

#### **Essential Duties & Responsibilities**

Relating primarily to the External parts of the system:

- Implement or lead the implementation of quality initiatives to support the departmental and company goals and priorities.
- Identify and implement quality/process control system(s) to support the development, validation and verification and manufacturing of devices.
- Provide technical guidance on the use of Quality Engineering methods and tools for identifying and resolving quality issues.
- Participate in Material Review Board. Review and approve the disposition of non-conforming product.
- Identify non-conformance trends and opportunities for quality improvements. Proactively investigate and implement quality engineering practices to quality issues.
- Assist in the development and assessment of Second Sight's Supplier Evaluation Program; address problems and recommend solutions to supplier quality; interface sufficiently to ensure product specifications are met.
- Provide Quality engineering support within the product development, manufacturing and services. Lead in the implementation of quality assurance and QE methodologies.

**Education:** BS degree in Engineering or related discipline preferably with Master in related engineering field. Electrical Engineering or Computer Science backgrounds are preferred. ASQ CQE or CRE is a plus

#### **Experience:**

- 4-6 years experience as a Quality, Reliability or Software Quality Engineer in the implantable medical device industry or a related area.
- Demonstrated ability to plan and accomplish complicated goals.
- Experience with active implantable medical device software, firmware, and hardware

## **2. Mechanical Engineer for Manufacturing Group:**

### **ESSENTIAL DUTIES & RESPONSIBILITIES:**

- Develop, document, and maintain various manufacturing processes.
- Design, develop and revise fixtures and hardware for the manufacturing and testing of the implant.
- Conduct brainstorming sessions and design reviews, build prototypes, release designs under document control.
- Perform project design and status reviews for technical area of responsibility.
- Designs individual components and creates assemblies using SolidWorks and AutoCAD tools.
- Test and modify prototypes and gets feedback through design reviews and product development cycle. Use of basic machine shop tools is preferred.
- Work with materials group to select high quality, cost effective vendors.
- Interact with vendors for troubleshooting, design improvement, and productivity improvement.
- Plan and fabricate test apparatus and equipment, and development of methods and procedures for testing products or systems.
- Coordinate acquisition, installation, Calibration, and PM, activities of manufacturing equipment.
- Conduct qualification (IQ, OQ, PQ, and TMV) activities.

### **Education / Certification:**

- Bachelor of Science Degree in Mechanical Engineering from a four-year college or university.
- MSME preferred.

**Experience:** Three to five years related experience and/or training. Equivalent combination of education and experience.

### **Skills / Abilities:**

- Proficient in work processing and spreadsheet software.
- Knowledge of 3-D modeling software such as SolidWorks and design software such as AutoCAD.
- Experienced with stencil printing, solder paste and pick and place. Proficiency with wire bonding, die attach or IC packaging.

## **3. Sr. Mechanical Engineer for R&D Group:**

### **Position Summary:**

We are searching for a specialist in the principles and practice of mechanical design with extensive background in solid modeling, machining, materials and testing. As a member of the R&D department, this Senior Mechanical Engineer will develop design and production methods for advanced nerve stimulation devices. Experience with product, fixture and mold design is desired, particularly when based on 3D parametric CAD and finite element simulation. Candidate should have an interest in biomedical technologies and possess the ability to apply fundamental engineering concepts to the development and evaluation of designs.

### **Essential Duties & Responsibilities:**

- Develop products from existing requirements and generate requirements from customer input.
- Maintain and revise design specifications.

- Generate, evaluate and refine design concepts for parts, fixtures, molds and other items.
- Design parts and assemblies using CAD/CAE tools. Document designs according to company procedures and standards.
- Fabricate and evaluate prototypes using internal resources or external vendors. Utilize design reviews during product development cycle.
- Be familiar with assorted machining techniques, CNC programming and use of basic machine shop tools.
- Expertise with materials commonly used in implantable neurostimulators including metals, polymers and composites.
- Procure and qualify parts and assemblies through internal resources or external vendors.
- Interface with vendors for troubleshooting, design, optimization and productivity improvement.
- Develop test methods, procedures and apparatuses. Perform inspection and failure analysis. Document results.
- Lead small to medium sized development projects. Plan, execute and document tasks. Report progress to management.
- Identify, define and prioritize development efforts.
- Train operators and engineers. Support manufacturing personnel.
- Know, understand and follow SOPs that make up the quality system, particular Design Control.

#### **Qualifications:**

- **Education:** BS in mechanical engineering or related field from accredited college or university. MS preferred.
- **Experience:** At least 5 years of related experience and/or training; or equivalent combination of education and experience. Regulated industry and cleanroom experience preferred.
- **Required Knowledge:** Extensive knowledge of rapid prototype techniques, basic machine shop equipment operation and CNC mill programming is expected. Broad knowledge of materials properties, testing methods, inspection and GD&T is also expected.

#### **4. External Manufacturing Engineer with Electrical Expertise:**

##### **Essential Duties & Responsibilities:**

- External product production floor support
- Develop and implement changes to improve existing product manufacturability and yields.
- Oversee or conduct failure analysis of production floor failures and field returns.
- Set up processes and documents for repair/refurbishment of field returns.
- Create and maintain assembly and test manufacturing procedures
- Technical interface with external suppliers.
- Identify and qualify replacement for obsolete components.
- Manage outsourcing of external product subassemblies per business objectives.
- Participate in new external product development, specifically in the design for manufacturability and testability. Also, process FMEAs/control plans, validation of production assembly and test processes.
- Transfer of new products into production.
- May manage deployment of new external products to the field

#### **Qualifications:**

- **Education:** Bachelor's EE

- **Experience:** Industry experience in electronics assembly and troubleshooting desirable.
- **Required Knowledge:** Basic statistics required. Interest in analog circuitry desirable.

***Second Sight Medical Products, Inc. is an environment that encourages capable individuals to govern their own work. It challenges them with difficult technical problems, fosters creative solutions and rewards people for their results. If such an environment appeals to you, come and be part of our team!***