



## LIGHT FIELD LAB™

### LIGHT FIELD LAB, INC. JOB DESCRIPTION

(Revised: 6/17/2018)

**POSITION:** Assembly and Test Engineer

**DEPARTMENT:** Engineering

**FT or PT:** Full Time

**STATUS:** Exempt

**REPORTS TO:** CTO

#### **POSITION OVERVIEW:**

This is the opportunity to develop the world's highest resolution holographic display. You will help determine the optimal methods and techniques for assembling and testing both prototype and production light field displays. You will be characterizing and testing some of the world's most advanced optics and materials, and play a crucial role in defining our manufacturing process.

#### **JOB DUTIES:**

##### **Essential Duties and Responsibilities**

- Assemble unique systems containing emissive displays, optical relays, lenses, diffractive elements, and custom mechanical structures
- Develop manufacturing processes for optimal optical alignment, bonding, and testing
- Characterize unique optical components by constructing bench top experiments that include cameras, microscopes, optical filters, optical mounting hardware, etc
- Work with engineers to develop automated optical test and characterization stations for the measurement of light field properties for both prototype and production displays
- Write optical device characterization test reports
- Work with vendors to verify that device performance meets specifications, and define common measurement setups and procedures
- Develop methods for molding and processing revolutionary materials to be used in light field displays

- Maintain an organized lab environment, and order consumables and other common lab supplies
- Other tasks as assigned

## **REQUIREMENTS AND QUALIFICATIONS:**

### **Qualifications**

- Familiar with optical components – using lenses, microscopes, lasers, and filters
- Familiar with optical breadboard setups which include translation stages, optical mounts, brackets, and rail systems
- Familiar with the assembly of optical systems, including positioning, alignment, and bonding
- Demonstrated proficiency in optical device characterization and testing for the purposes of both development and manufacturing
- Experience in developing and optimizing a manufacturing process for the production of an optical system
- Familiar measurement of contrast and resolution using optical imaging
- Experience with molding materials for manufacturing is a plus
- Experience working in a lab environment. Comfortable with clean room practices and procedures.
- Simple programming in Python, C++, or any other language for data analysis is a plus

### **Key Competencies**

- Optical components
- Optical breadboard setups
- Assembly of optical systems
- Optical device characterization and test
- Manufacturing process development for an optical system
- Working with molding materials for manufacturing
- Lab environment
- Process document creation
- Detailed documentation of test results

## **PHYSICAL REQUIREMENTS**

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. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- Ability to lift and carry 25 pounds for 50 feet; bend and reach; work in an environment with daily changes in climate;
- While performing the duties of this job, the employee routinely is required to sit, read, write, type and speak for extended periods of time;
- The employee is required to move around the premises;
- The employee must be able to observe and respond to people and situations and interact with others encountered in the course of work;
- Employee must be able to learn and apply new skills or information;
- Must be able to multi-task regularly;
- Employee must display a positive, professional image and attitude and work well with others;
- The environment generally is moderate in temperature and noise levels;
- Must demonstrate placement of a metric size M1.2 washer onto a size M1.2 bolt, and then screwing this assembly into a threaded hole to secure a small bracket;
- Must demonstrate stripping and soldering two 30-gauge wires together, where one wire is fixed in position and the other is free to move;
- The position also requires the following abilities:
  - Ability to look at computer screen for extended periods;
  - Ability to concentrate and focus for extended periods;
  - Ability to handle stress;
  - Ability to interact frequently and positively with others;
  - Ability to meet deadlines

The above information on this description has been designed to indicate the general nature and level of work performance by employees within this classification. It is not designed to contain or interpreted as a comprehensive inventory or exhaustive list of all duties, responsibilities and qualifications required of employees assigned to this job. Management reserves the right to amend and change responsibilities to meet business and organizational needs. Light Field Lab Inc., is an at-will employer and this description is not intended to imply a guarantee of permanent employment.