



**We are seeking a Electro-Optical Engineer IV**

**Must have an outstanding work ethic, be self-motivated and have a “can do, get it done” teamwork/positive attitude! Competitive wages and benefits! Great team! Great culture and benefits! Employer Matched 401 k! Sick and Vacation! Health benefits! (Vision, dental, medical, disability, life insurance, educational assistance, career pathways, tuition reimbursement, apprenticeships, wellness programs and much more)**

**About the Company:** *Founded in 1982, Lighthouse Worldwide Solutions is the world’s leading supplier of real time contamination monitoring systems and airborne particle counters. Lighthouse offers the most complete line of contamination monitoring solutions available that include Airborne Particle Counters, Microbial Samplers, and Liquid Particle Counters, as well as Temperature / Humidity sensors. Recently added production of air purification products, manufacturing of personal protective equipment. These solutions are now found in semiconductor, pharmaceutical, data storage, biotechnology, aerospace, and defense industry plants worldwide.*

**Job Summary:**

This position is responsible for applying knowledge of engineering principles to design, develop and test all aspects of optical and electro-optical components and systems. May use computer-assisted engineering and design software and equipment to perform assignments. May be involved with activities of fabrication, operation, application, installation, and repair of optical or electro-optical products and systems. Familiar with a variety of concepts, practices, and procedures. Relies on extensive experience and judgement to plan and accomplish goals and complicated tasks. Can work independently to accomplish project design requirements. A wide degree of creativity and latitude is expected. Leads and directs the work of others.

Essential duties and responsibilities:

- Follow all safety rules and regulations, all work must be done thinking “Safety First”.
- Researches and prepares specifications for purchase of design components and materials
- Conducts research and design of gas and solid state lasers, masers, infrared, and other light emitting and light sensitive devices.
- Defines and oversees fabrication of test equipment, and development of methods and procedures for testing products or systems
- Directs and coordinates manufacturing, construction, installation, maintenance, support, documentation, and testing activities to ensure compliance with specifications, codes, and customer requirements
- Incorporates methods for maintenance and repair of components and designs, and develops test instrumentation and test procedures
- Designs electronic circuitry and optical components with specific characteristics to fit within specified mechanical limits and to perform according to specifications
- Inspects completed installations and observes operations, to ensure conformance to design and equipment specifications and compliance with operational and safety standards
- Uses engineering methodology and procedures to apply principles of electrical theory to design and development projects
- Researches and analyzes data such as customer design proposals, specifications, and manuals to determine feasibility of design or application
- Evaluates field installations and recommends design modifications to eliminate machine or system malfunctions
- Good communications skills
- Able to lift up to 40 pounds and 41+ pounds as a two-person lift.
- Budgets, schedules and coordinates projects
- The above listing represents the general duties considered essential functions of the job and is not to be considered a detailed description of all the work requirements that may be inherent in the position

**CANDIDATES SUBJECT TO PRE-EMPLOYMENT BACKGROUND SCREENING**



**Supervisory Responsibilities:**

- May directly supervise other engineering personnel

**Travel:**

- Travel may be required on occasion to other LWS offices.

**Required Skills/Abilities:**

- Advanced understanding of optics, photonics, and electromagnetic theory
- Laser systems, lidar, or active EO systems
- End to end EO system development
- Mechanical assemblies
- Electronics and FPGA/processor boards
- Software and embedded systems
- Excellent verbal and written communication skills.
- Strong interpersonal and customer service skills.
- Proficient Microsoft Office Suite, related software and computers.
- Excellent organizational skills and attention to detail.
- Ability to effectively present information and respond to questions from peers, managers, and personnel from various departments.
- Ability to gather and analyze information skillfully, identifying and resolving problems in a timely manner.
- Ability to work independently and in a team environment.

**Education and Experience:**

- Bachelor's degree in Electro-Optical Engineering and at least 9+ years of experience in a related field; or 12 years related experience and/or training; or equivalent combination of education and experience

**EEO Statement:** *Lighthouse Worldwide Solutions is an Equal Opportunity Employer. All qualified applicants will be considered for employment without regard to race, age, color, sex, religion, national origin, marital status, ancestry, citizenship, veteran status, sexual orientation or preference, gender identity, disability status, or any other legally-protected status.*

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