

Please email resumes in Microsoft® Word format to Human Resources at: HR@interfacedisplays.com.

Position	Department
Electro-Optical Engineer	Engineering
Position Schedule	Position Duration
8:00am – 5:00pm, Mon – Fri	Full-Time / Regular

Description

Interface Displays & Controls is seeking an Electro-Optical Engineer for our facility in Oceanside, CA. The company specializes in the design, engineering and manufacturing of cockpit controls, displays, and data transfer systems for military and commercial avionic applications.

The Electro-Optical Engineer will be responsible for the design and development of display systems for a wide range of applications. Products include LCD and LED display technologies, which are integrated into ruggedized assemblies that provide reliable performance in demanding environments.

Essential Duties and Responsibilities

- Flow down display functionality and subsystem requirements based on system specifications. Prepare displays subsystem requirements, specifications, and interface control documentation.
- Plan, schedule, organize, and document the technical work necessary to be responsive to the customers' needs within contractual objectives and allocated budgets.
- Develop, analyze, and detail the design of the display subsystem. Simulate and predict performance, and support the system design reviews.
- Research and recommend new technologies to meet requirements for new product designs.
- Develop test plans and procedures. Format and prepare test reports.
- Set up test equipment and perform testing to evaluate the functionality of the display and determine the system performance and reliability under actual operations conditions.
- Write technical reports and develop charts, graphs, drawings, and schematics to describe and illustrate operating characteristics, functional limitations, and deviations from design specifications.

Qualifications

To perform this job successfully, an individual must be able to perform each Essential Duty satisfactorily. Excellent communication skills and ability to work complex solutions within an interdisciplinary team is required. Knowledge and experience with the overall engineering development process from requirements definition through verification and qualification is required. Knowledge and experience in program management including earned value measures and variance analysis. The requirements listed below are representative of the knowledge and skills required.



Education and/or Experience

BS Degree in Mechanical, Electrical, or Optical Engineering is required; MS degree is preferred. Must have a minimum of seven years' related design experience in displays or related optical technologies. Knowledge and experience with both LCD and LED technologies; touch-screen, tablet, and optical-film technologies; and requirements such as backlighting, resolution, viewing angles, daylight readability, night vision, etc. Proficiency in simulation and modeling of optical designs. Experience with optical measurements and data analysis. Experience in the aerospace environment and knowledge of DoD, military, and FAA requirements are a plus.

Language Skills

Ability to read, analyze, and interpret common scientific and technical journals. Ability to respond to technical inquiries, regulatory agencies, or members of the technical community. Ability to effectively present information to top management, customers, and team members.

Computer Skills

Proficiency with Microsoft Office tools such as Word, Excel, and PowerPoint. Must have experience with optical design, simulation, and analysis tools.

Reasoning Ability

Ability to define problems, collect data, establish facts, and draw valid conclusions. Ability to interpret an extensive variety of technical instructions.

Physical Demands

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. Must be able to sit, stand, walk, handle small objects and have excellent dexterity. Must be able to hear and speak clearly. May occasionally lift and/or move up to 25 pounds.

Work Environment

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions. This is an office and test lab environment with minimal noise.

THIS POSITION DESCRIPTION REFLECTS THE GENERAL LEVEL AND NATURE OF THE JOB, AND IS NOT TO BE CONSTRUED AS ALL INCLUSIVE.