

Job Title:

Optical Engineer

Position Objective:

- Join the Imaging Engineering team designing, developing, and characterizing advanced optical imaging systems for Xerox's world-class document & object marking products, optoelectronic sensing, as well as future novel technologies. Advance your career and become an optical systems subject matter expert by working closely with some of Xerox's top engineers & scientists in an entrepreneurial product & technology development model that encompasses early technology incubation all the way to New Product Introduction manufacturing. Apply your knowledge of optical physics to design & validate optical imaging system critical to function parameters and specifications for Laser & LED-based systems. Develop optical, mechanical & electronic test methods and fixturing for critical to function parameter optimization & validation. Direct & assist lab technicians performing optical imaging system optimization, validation, testing, and troubleshooting.

Essential Functions:

- Participate in the planning and execution of lab experimentation to develop and validate critical parameters and specifications for Laser & LED optical imaging systems
- Apply hands-on skills in the lab to develop optomechanical & optoelectronic test methods and fixturing for critical parameter optimization & validation of optical imaging systems
- Direct & assist lab technicians to perform the optical alignment, optimization & validation testing of optical imaging systems, and support the debug & troubleshooting of optical imaging systems using a range of laboratory test equipment and fixtures (cameras, radiometers, interferometers, and LabVIEW-based software).
- Perform statistical analysis of lab data and demonstrate correlation with theoretical calculations

Education:

- Minimum M.S. Optics, Optical Engineering, Physics or related field
- Minimum GPA, 3.0

Qualifications:

- Familiarity with the design & specification of optical systems, components, sources and sensors
- Ability to learn new lab instrumentation & document its operation
- Must have good Microsoft Office skills
- Working knowledge of optical & math modeling software (CODE V, LightTools, ZEMAX, Matlab)
- LabVIEW programming skills are a plus
- Able to analyze and solve complex problems with innovative, creative solutions
- Able to synthesize large sets of data and determine high-level key messages and gaps
- Able to analyze issues and to find a resolution to problems by using a rational, systematic approach
- Demonstrates the ability to communicate information clearly and effectively both verbally and in writing at all levels of seniority, both formally and informally
- Contributes fully to an effective team environment; demonstrates a willingness to work cooperatively with others to achieve shared goals
- Good judgment with the ability to make timely and sound decisions while considering input from others

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