



COMPANY

Tunoptix is a fast-growing startup focused on revolutionizing the way optical systems are conceptualized, designed, and manufactured using nanotechnology and semiconductor processing. We combine semiconductor-defined meta-optics with advanced, AI-based image processing and proprietary design techniques to enable next-generation cameras. Tunoptix products will expand possibilities in the fields of machine vision, consumer electronics, medical endoscopy, 3D imaging, and hyperspectral imaging.

Tunoptix is an emerging leader in meta-optics and computational imaging and was founded to commercialize disruptive meta-optical technologies developed in the research groups of professors Arka Majumdar and Karl Bohringer at the University of Washington. We have raised venture funding from IP Group as well as from major government funding organizations including DARPA and NASA. Tunoptix is also a member of the vibrant startup community at the University of Washington CoMotion Fluke Labs incubator.

[Tunoptix Website](#)

POSITION – Optical Test Engineer

Reporting to the Director of System Design, the Optical Test Engineer will collaborate with a talented team of engineers and scientists to test and evaluate cutting-edge Tunoptix systems. Specifically, this includes both experimentally characterizing optical components and cameras, as well as developing scripts for efficient data acquisition and analysis. This is an exciting opportunity for a highly motivated and capable engineer to gain expertise in the growing field of meta-optics, and computational imaging systems. Together, we can shape next-generation imaging systems for industrial machine vision, medical instrumentation, automobiles, robotics, and consumer electronics.

LOCATION: Seattle, WA

RESPONSIBILITIES

- Work closely with the rest of the technical team to design and conduct optical experiments and evaluation of Tunoptix systems and prototypes
- Document, analyze, and report test data from optical experiments
- Develop scripts for automation of data capture and analysis
- Maintain detailed documentation of test procedures and scripts
- Assist with the design and assembly of Tunoptix systems
- Assist in the development, production, and testing of opto-mechanical packaging designs
- Support in acquiring key equipment and components for experiments and Tunoptix systems
- Assist in providing customer support for shipped Tunoptix systems

QUALIFICATIONS

- Minimum of a Bachelor's in an engineering field or equivalent technical discipline



- 2+ years of experience conducting optical experiments (e.g., optical alignment, illumination systems, imaging systems, light source characterization, fiber optics, etc.)
- Programming experience using Python to automate data capture (e.g., interfacing with cameras, monitors, mechanical actuators) and analysis, including OpenCV
- Strong understanding of ray optics, diffraction, and imaging system metrics
- Experience with document control best practices
- Strong interpersonal and technical communication skills
- Familiarity with CAD design packages (e.g., SolidWorks or AutoCAD) and experience with machine shop and 3D printing technologies are desirable
- Familiarity with semiconductor nanofabrication processes and cleanroom experience are a plus
- Ability to bridge technology development with commercial demands
- Familiar with the startup or early-stage business environment
- Entrepreneurial spirit, with a hands-on, roll-up-the-sleeves mentality

WHAT WE OFFER

- Competitive Compensation Package, including equity
- Full benefit package: Medical, Dental, and Vision Plans
- Insurance: Company paid Life and Disability insurance
- Medical savings accounts: FSA and HSA accounts
- Paid time off: Vacation and sick time

COVID-19 PRECAUTIONS

- Remote interview process
- Personal protective equipment required
- Social distancing guidelines in place
- Virtual meetings

EEO Statement

Tunoptix is proud to be an Equal Employment Opportunity and Affirmative Action employer. We do not discriminate based upon race, religion, color, national origin, gender (including pregnancy, childbirth, or related medical conditions), sexual orientation, gender identity, gender expression, age, status as a protected veteran, status as an individual with a disability, or other applicable legally protected characteristics.

APPLY

If you are interested in the role, please send your resume to John.Fijol@ipgroup-inc.com