

FIBERTEK, INC.

AN ADVANCED PHOTONICS COMPANY

13605 DULLES TECHNOLOGY DR
HERNDON, VA 20171
703-471-7671

Principal Scientist (Engineer for Laser & Optical Systems)

We are looking for an innovative scientist or engineer to join Fibertek in developing advanced lasers and laser-based electro-optic systems and technologies for the defense and aerospace community. In this role, you will serve as a subject matter expert in lasers and/or electro-optical systems (including solid-state lasers, fiber lasers, lidar sensors, and/or laser communications systems), develop new concepts that advance the state of the art in system technology, and deliver them to our customers as mission-enabling capabilities. We are looking for a self-directed technologist with demonstrated success in innovative application-driven engineering and development to join a world-class small business in a position to lead multi-disciplinary teams of scientists, engineers, and technicians as a technical authority. You will have diverse responsibilities throughout the development life-cycle that include:

- Technical discussions with potential customers to discuss requirements, technical priorities and trades
- Definition and analysis of system concepts that respond to customer needs
- Authorship of technical proposals that clearly communicate the value of Fibertek's technical approach
- Leadership of engineering design teams in maturation of concepts to high-fidelity designs, and
- Oversight of design implementation including final system testing and performance verification

In this role, you will report directly to Fibertek's Chief Technology Officer and will help shape Fibertek's strategic direction while leading the pursuit and execution of applied research and development projects that result in the delivery of advanced laser-based systems that are beyond the current the state of technology and which enable the realization of sensing, communications, and other missions for a broad range of customers. We are seeking scientists and/or engineers with exceptional problem-solving skills and a systems-engineering focus that can lead teams and contribute in multiple capacities to hardware technology development through applied science and system engineering.

Requirements

- Doctorate or Masters degree in Optics, Engineering, Physics, or other related field
- >10 years professional experience
- US Citizen and eligibility to obtain a US Security Clearance
- Expertise in one or more of the following skill areas: laser design, lidar, free-space optical communications, optical detection, beam propagation, optical systems engineering
- Demonstrated experience in design, development, and engineering of laser-based optical systems (examples include lidar sensors, lasers, and/or laser communication systems)
- Strong written and verbal communication skills

Desired Skills and Experience

- Expertise in related disciplines, such as: engineering of space and airborne systems, modeling and analysis of laser and/or optical systems, directed energy, fiber optics, imaging systems, optical scanners, beam control and/or pointing systems, optical time transfer, photonic integrated circuits, imaging systems, signal processing or others
- Authorship of technical proposals

Why Fibertek, Inc?

Fibertek is a small business with a 35-year history of leadership in delivering advanced laser-based systems and technologies to the defense and aerospace communities with an emphasis on first-of-kind systems developed for the most challenging environments. We are leaders in delivering lasers for space-based earth-sensing LIDAR for NASA (e.g., CALIPSO and ICESat-2 laser systems) and in developing advanced laser and sensor systems for LIDAR and other applications in the defense community. Fibertek has a deep portfolio of solid-state and fiber-based laser systems; has delivered multiple

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lidar sensors for 3D imaging, tracking and navigation; and has a rapidly growing product line in space-based laser communications across multiple mission scenarios from low-earth orbit to deep space. Fibertek fosters a progressive learning environment that values inspiration, promotes professional challenge and encourages personal growth. We offer competitive and incentivized compensation package with excellent benefits. Relocation assistance will be available.

How to Apply

Send your resume to our Human Resource department, at jobs@fibertek.com.