

## **Career Opportunities**

### ***Free Space Optical Communication Engineer (s)***

Fibertek is searching for free space optical (FSO) communications engineers to join our talented and energized technical staff to develop and deploy state of the art free space optical communication systems. Fibertek is developing space-based laser communication solutions for LEO, MEO, GEO and deep space communications, downlinks, crosslinks, and constellations. We are an advanced technology driven company that develops cutting edge technology then translates this into ruggedized, fielded customer solutions.

**FIBERTEK, Inc.** ([www.fibertek.com](http://www.fibertek.com)) is a well-renown small business providing DoD, NASA, Government and Aerospace customers laser and electro-optical instrumentation technologies typically used for fielded systems in harsh operating environments. Our small business culture fosters a resourceful and innovative environment specializing in delivering custom compact, high-reliability optical technologies and systems. We are ISO 9001-2000 certified and have state of the art clean rooms for space-based lasers, lidars, communication systems.

#### **Job Overview:**

Fibertek is seeking a Free-Space Optical Communication Engineer. The candidate will be responsible for contributing to the design, development and testing of laser communications electronics/photonic hardware for space-borne, applications.

#### **General Duties:**

- Direct hands-on contribution to the testing of high-speed optical transceiver systems for various free-space optical communication terminals (space, airborne, etc.). This includes developing test plans and identifying test equipment.
- Design, development and troubleshooting of prototypes high-speed opto-electronic circuits for optical transmitters/receivers.
- Lead a multi-disciplinary team of engineers (optical, mechanical, system) for the integration, test and qualification of free-space optical communication terminals.
- Develop manufacturing processes to increase reliability, reduce build time and provide cost savings.

#### **Qualifications:**

- Technical Degree required: Minimum B.S. in Physics, Electrical Engineering or a related engineering discipline. M.S. or PhD level degree with emphasis on fiber-optic communications preferred.
- Minimum of 3 years industry/lab experience in the design, development and testing of high-speed optical and/or fiber-optic transmitter/receiver sub-systems.
- Good knowledge of BER testing, receiver and detector noise issues, optical modems and industry standards and qualifications of telecom components.
- Experience in digital control electronics and/or embedded electronics a plus.
- Able to translate requirements for space, airborne, underwater optical links for the design and development of optical transceiver sub-systems. Experience in space-flight electronics a plus.
- Strong communication and collaboration skills in a multi-disciplinary environment. Self-starter and able to work independently while coordinating with other engineering personnel.
- US citizenship required.



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**Work Environment**

- Laboratory/hands-on work may include class 10,000 clean-room working conditions
- Data analysis tasks, reporting and documentation will be performed in an office environment

To explore this opportunity further, please send your resume to [hr@fibertek.com](mailto:hr@fibertek.com).

**Fibertek, Inc. is an equal opportunity and affirmative action employer. Applicants are considered regardless of race, sex, disability, veteran status or any other protected characteristic in accordance with applicable law.**