

Job Title: Photonics Engineer

Description

Bridger Photonics, a rapidly growing photonics company specializing in precision laser sensors, seeks a qualified candidate to fill a full-time salaried position.

Responsibilities include, but are not limited to:

- supporting the construction and testing of complex optical systems related to advanced LADAR, LIDAR, and laser remote sensing.

Specific tasks include, but are not limited to:

- constructing and operating LADAR and LIDAR transmitters and receivers for advanced demonstrations,
- working with high-average-power infrared cw lasers (> 10 W) and high-energy pulsed lasers (> 10 mJ),
- working with optical parametric generation crystals,
- performing LADAR and LIDAR experiments both in house and in the field,
- working with scientists and engineers to develop conceptual and detailed optical designs,
- acquiring and processing data,
- working with vendors to obtain optical and electro-optical components,
- verifying quality of purchased components,
- creating test procedures,
- troubleshooting and resolving optical system performance issues,
- writing technical reports,
- preparing and giving customer presentations.

Knowledge, Skills & Experience

Required qualifications:

- B.S. or higher in Photonics, Optical Engineering, Electrical Engineering, Quantum Electronics, Physics, or equivalent.
- 2-4 years of direct hands-on experience in optics, photonics, nonlinear optics, and lasers,
- able and willing to work extremely hard and efficiently in fast-paced experimental laboratory environment,
- demonstrated expertise and mastery in optomechanics, including assembly, troubleshooting, and design (including packaging and tolerancing) of optical systems including the following components: lenses and mirrors, lasers, polarization optics, nonlinear crystals, fiber optics and photodetectors,
- demonstrated expertise and mastery in at least one of the following areas:
 - digital signal processing and implementation (including FPGA's),
 - mechanical design (SolidWorks)
 - analog circuit design, layout, implementation, and troubleshooting,
 - computer programming for commercial product software (C, JAVA, etc.),
- able to take initiative and work independently on assigned projects,
- excellent written and communication skills,
- team player that works well with others.

Preferred qualifications:

- expertise in LADAR, LIDAR, laser remote sensing,
- experience with LabVIEW data collection software, Zemax optical design and analysis software, Matlab mathematical modeling software.

Additional Information

- Salary is commensurate with education, experience, and skills, and is expected to range between \$30,000 to \$50,000 per year.
- US citizenship or Permanent Residency required.
- Bridger Photonics, Inc. is an Equal Opportunity Employer and will not discriminate against any employee or applicant for employment because of race, color, religion, disability, sex, familial status, or national origin.

For full consideration, please submit resume and contact information for four professional references via email to:

Bridger Photonics, Inc.

Human Resources

hr@bridgerphotonics.com

Phone: (406) 585-2774

Fax: (406) 587-0808