

Job Title: Photonics Engineer

Description

Bridger Photonics, Inc., 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 development, construction, and testing of lasers and complex optical systems related to advanced LADAR, LIDAR, laser remote sensing, and imaging.

Specific tasks include, but are not limited to:

- designing and performing LADAR and LIDAR experiments both in house and in the field,
- transitioning solid-state laser and nonlinear optical prototypes to turn-key operation,
- helping to demonstrate advanced LADAR and LIDAR concepts, hardware, and systems,
- working with high-average-power infrared cw lasers (> 10 W) and high-energy pulsed lasers (> 10 mJ),
- developing detailed optical designs,
- acquiring and processing data,
- working with optical components including lasers, fiber optics, lenses, mirrors, polarization optics, and photodetectors,
- working with nonlinear optical materials for frequency conversion applications,
- working with electronic equipment and instruments (scopes, analyzers, meters, etc.),
- ordering 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 field.
- demonstrated excellence in engineering, photonics, or physics laboratory environment,
- willing and able to work extremely hard and efficiently in fast-paced experimental laboratory environment,
- able to take initiative and work independently on assigned projects,
- excellent written and oral communication skills,
- team player that works well with others.

Preferred qualifications:

- experience in optics, photonics, nonlinear optics, and lasers,
- demonstrated expertise and mastery in assembly, troubleshooting, and construction of complex optical systems including the following components: lasers, lenses and mirrors, polarization optics, fiber optics and photodetectors,
- strong theoretical background in Fourier optics, diffraction theory, imaging systems, solid state optics and laser systems,
- expertise in LADAR, LIDAR, laser remote sensing,
- experience with:
 - Zemax optical design and analysis software,

- Matlab mathematical modeling software
- Labview data collection software,
- analog electronics,
- signal processing

Additional Information

- Salary is commensurate with education, experience, and skills, and is expected to range between \$40,000 to \$60,000 per year.
- Attractive benefits package including health, dental, and retirement plans.
- U.S. citizenship 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 before **June 7, 2010**,

- cover letter that identifies the job title for which you are applying,
- resume,
- 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