



**POSITION TITLE** Sr. Optical Physicist  
**TYPE** Full-Time  
**LOCATION** Rocky Hill, CT  
**COMPENSATION** Includes salary commensurate with experience, equity, health and retirement benefits.

Lumeda Inc. is an early-stage medical device company applying advanced photonics and artificial intelligence (AI) to automate and digitize Photo-Dynamic Therapy (PDT) light delivery to enable a breakthrough intraoperative procedure as an adjuvant therapy in lung cancer surgery. We are a multidisciplinary team of highly experienced individuals committed to pioneering the advancement and efficacy of PDT for improved patient outcomes in treating thoracic malignancies.

Lumeda Inc. is currently seeking an Optical Physicist, with direct report to founder and VP of Engineering. This individual will have experience in computer modelling of free space optical systems, familiarity with Matlab or similar scientific computing languages. In this position the candidate will lead the development of novel passive optical components for use in Lumeda's Photo Dynamic Therapy product line. This will involve the theoretical modelling as well as the experimental validation of new systems and components. The candidate will also contribute to the development of innovative algorithms for the control of light delivery and dosimetry.

**Requirements/Qualifications:**

- MS degree required, Ph. D preferred.
- Minimum 5 years relevant experience, or advanced degree with minimum of 3 years relevant experience

**Experience or familiarity with the following;**

- Lead the development of computer based tools to model light propagation in human tissue and other turbid media.
- Design and perform experiments to validate theoretical predictions of optical system designs.
- Possess strong hands on laboratory experience.
- Familiarity with fiber optics, laser diodes and optical detectors required.
- Experience in the use optical test equipment such as optical spectrum analyzers, image capture, integrating spheres.
- Experience in Python and electronic design is a plus.
- Strong written/oral communication skills and competence with MS Office software packages.
- Ability to work independently and within a team-oriented entrepreneurial environment.
- Work authorization for United States required.



Lumeda Inc. is an equal opportunity employer that is committed to diversity and inclusion in the workplace. We prohibit discrimination and harassment of any kind based on race, color, sex, religion, sexual orientation, national origin, disability, genetic information, pregnancy, or any other protected characteristic as outlined by federal, state, or local laws.

This policy applies to all employment practices within our organization, including hiring, recruiting, promotion, termination, layoff, recall, leave of absence, compensation, benefits, training, and apprenticeship. Lumeda Inc. makes hiring decisions based solely on qualifications, merit, and business needs at the time.

\*\*\*\*\* Please forward resumes to [hr@lumedainc.com](mailto:hr@lumedainc.com) \*\*\*\*\*