Title: Optical Engineer/Laser Physicist

Description: Rydberg Technologies is seeking an optical engineer or physicist to join our quantum R&D group for the development and manufacturing of next-generation atomic and quantum devices. Responsibilities include advanced laser, optical, and opto-mechanical systems design, hardware development, opto-electronics interfacing, micro-optical precision assembly and automation, device-level hardware integration and troubleshooting, environmental performance testing and optimization, and manufacturing process development. We seek high-caliber candidates who are solution-oriented, organized, self-motivated, have an interest in top-level project planning, give attention to the finest project details, and have the ability to both work autonomously and in a dynamic, fast-paced team environment.

Required skills: Complex laser and micro-optical system design, development, and packaging, precision optical assembly, high-performance optical-electrical interfacing (photoreceivers, low-noise opto-electronics), optical fiber and polarization optics, optical metrology, electrooptical systems, mechanical, thermal simulation and programming, narrow linewidth lasers (diode, DBR, etc.), optical amplifiers.

Other skills: Hand-on experience with optical frequency combs, pulsed lasers, optics and material bonding, chip-scale and low-noise opto-electronics, photonic integrated circuits, microfabrication, RF/microwave/THz optics and electronics, finite-element engineering design, ZEMAX, optical/EM, mechanical, and thermal simulation software packages (Solidworks, ANSYS). Experience in quantum technology, atomic sensors, including electric and magnetic field sensors and clocks, RF/microwave engineering and measurement would be helpful but is not required.

Qualifications: Advanced degree (MS or PhD) in optical engineering, laser physics or related field. BS degree with substantial relevant industry experience will also be considered. One to three years of post-doctoral or industry experience highly desired. Priority given to US citizens or green card holders.

Compensation: Competitive salary and benefits including family medical, dental, and vision insurance, PTO, maternity/paternity leave, retirement match program, and participation in the company stock plan. Compensation is based on candidate qualifications and experience.

Contact: For questions about this opportunity email admin@RydbergTechnologies.com with the subject “Applicant: Optical Engineer/Laser Physicist.” Applicants should send a brief description of themselves and their interest in the position, a curriculum vitae, and be prepared to provide two references upon request.

Rydberg Technologies Inc. is a research and development company and manufacturer of quantum technologies for next-generation sensing, measurement, and imaging solutions. Rydberg Technologies is the industry leader in atom-based quantum RF detectors, receivers and measurement devices, supported by a foundation of fundamental and applied physics research and an expanding core technology IP portfolio. Rydberg Technologies Inc. main offices and facilities are in Ann Arbor, Michigan USA.

Rydberg Technologies in an equal opportunity employer. All qualified applicants will be considered without attention to race, color, national origin, religion, sex, sexual orientation, gender identity, age, disability, or military status.