Job Title: Senior Research Scientist **Location:** Rochester, NY

Company Overview:
Lumetrics develops and manufactures precision non-contact thickness measurement and optical inspection systems for a variety of markets including ophthalmic, medical balloons & tubing, automotive and laminated glass, AR/VR and beyond. Our OptiGauge precision thickness measurement technology is fast, accurate, flexible, and scalable to most QA laboratories, R&D centers, or production lines.

This position is an in-house role that will lead advanced research in precision measurement and instrumentation. This role plays a critical part in advancing our capabilities in metrology, supporting both fundamental research and practical applications across high-tech industries.

Salary Range: $96,000 - $137,000 per year, full-time onsite

Essential Job Functions include, but not limited to, the following:

- Design, lead, and execute complex research projects to address critical scientific challenges
- Develop and validate experimental methods, models, and protocols
- Identify the wide range of existing and potential product applications
- Identify and monitor capabilities of competitive products
- Improve computational algorithms and measurement performance of existing products
- Identify possible paths for improvement of technology
- Prepare and publish scientific papers, technical documentation, and patent applications
- Collaborate with cross-functional teams to integrate research outcomes into products or processes
- Interact with potential customers, and understand their needs and applications
- Devise methods for solving customers' needs
- Interface with other engineers in the company (mechanical, software, electrical) to improve product performance and ergonomics
- Troubleshoot technical problems related to manufacturing, service, and optical alignment issues
- Work with Sales to identify possible customers and their applications

Qualifications:

- PhD in Physics, Optics or related field required
- 5+ years' experience in optics related industry required
- Experience with low coherence interferometers, Fourier domain OCT, and imaging systems
- Experience with MATLAB, LabView, Python, Zemax and other technical applications
- Demonstrated ability to independently lead research projects from concept to execution
- Track record of successful grant writing or IP development
- Proficiency with Microsoft Word, Excel
- Candidate should be self-motivated, conscientious, pay extreme attention to detail, exhibit strong observational, listening and public speaking skills, and possess excellent writing skills

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, or status as a protected veteran.