

Director of Optical Engineering

Location: Boston Area

Nanopath is working to develop a first-in-class *in vitro* diagnostics platform to revolutionize the way we diagnose chronic and infectious disease. We are seeking a highly motivated candidate that will work directly with the founders to design the customer-facing diagnostic readout instrumentation - this product will sit on lab benches worldwide. The ideal candidate has a passion for improving human health through product development & design coupled to a drive to innovate at the intersection of physics and bioengineering.

Nanopath is a seed-stage company spun-out of Dartmouth's Engineering School in partnership with Dartmouth Hitchcock Medical Center. As a company, we are dedicated to the development of disease diagnostics that improve human health. We are committed to health equity and the design of solutions for underserved populations and low-resource settings. Corporate sustainability – both environmental and social - is at the forefront of our decision making.

Role

- Lead design and development of customer-facing clinical instrumentation to be compatible with Nanopath's proprietary assay
- Work directly with founders to define product vision
- Iterate product design as we take the instrumentation through clinical trials and regulatory submissions
- Work with top-tier product development contractor to design instrumentation and user interface that meets the needs of end user
- Remain at cutting-edge of the physics-bioengineering interface through careful theoretical study

Technical Qualifications

- Expertise in design of optical readout instrumentation, including optical alignment and optical component selection
- Experience with simulation tools to understand and enhance light-matter interactions
- Demonstrated experience integrating optical, electrical & mechanical components
- Experience in design-for-manufacture and/or human centered design, and understanding of fabrication processes
- Experience with ML/deep learning algorithms and/or ability to analyze and integrate complex data sets
- Comfortable working in biological laboratories with a basic knowledge of wet lab instrumentation & equipment

General Qualifications

- M.S. or Ph.D. in Engineering/Physics preferred
- Excellent communication and presentation skills, highly organized with demonstrated curiosity, scientific rigor and creative problem-solving
- Proactive self-starter with eagerness to adapt to a fast-paced, dynamic startup environment
- Passion for technology translation and willingness to shape Nanopath's mission

How to apply: Please send a 1-page cover letter & CV/resume to info@nanopathdx.com

Nanopath Inc. is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law.