



## **Systems Engineer / Senior Systems Engineer**

### **The Company:**

NinePoint Medical is a fast-paced medical device start-up based out of Bedford MA. With our recent strategic investment from Merit Medical, we are expanding our product development team. We develop, manufacture and commercialize cutting-edge medical imaging products with a big vision to detect, diagnose, and treat cancer before it becomes cancer. Today's standard of care for diagnosis of disease relies on obtaining a tissue sample and performing costly processing and expert review of tissue sections. Using breakthrough optical imaging technology along with advanced machine learning algorithms, NinePoint Medical will provide treating physicians with real-time diagnostic capability, thus streamlining patient care, reducing cost, and improving outcomes. The research and development team is composed of a small but diverse group of talented electrical, mechanical, optical, imaging and software engineers who strive to make a direct impact on patients' lives every day.

### **Position Requirements:**

We are looking for a talented Systems Engineer / Senior Systems Engineer who will be responsible for the design, development and commercialization of novel image based products. The qualified candidate will be a hands-on technical contributor, working alongside experts in engineering, manufacturing, quality, clinical & marketing disciplines to develop future optical imaging systems, and support existing platforms.

### **Key responsibilities:**

- Execution of diverse tasks related to the development of complex medical devices (hardware, software and single-use devices): from concept and development through commercialization.
- Define, develop, and document system- and subsystem-level requirements and their corresponding evaluation procedures
- Design and build prototypes, integrate systems, and evaluate them
- Generate and document test protocols and engineering studies
- Communicate with existing external vendors and identify and build relationships with new ones as needed
- Work closely with cross-functional teams within and outside of R&D
- Keep up to date with technology trends. Generate concepts and principles and investigate their feasibility for current and future products

### **Required Experience:**

- 5+ years of experience with design, development and integration of optical imaging systems
- Experience with Matlab or similar engineering development tools
- Excellent written and verbal communication skills required with strong interpersonal skills and collaborative instincts: must be able to write clear reports, specifications, proposals, etc., and effectively discuss them with others

- Must have very good problem solving skills and attention to details
- Must be a self-starter and a fast learner
- Must work efficiently both independently and within a team

**Desirable Experience:**

- Optical Coherence Tomography, preferably swept-source & catheter-based, or a similar technology
- Signal and image processing, with Matlab, Python, C++ or equivalent tools
- Optical system and lens design, with Zemax or equivalent tools
- Medical imaging
- Industry experience within an FDA-regulated environment

**Education:**

- PhD or Master degree in Electrical and/or Biomedical Engineering preferred
- Optical Engineering, Physics, and other similar fields are acceptable with relevant experience.

**The Nine Points for Success**

1. **Excellence:** constantly create high quality products that improve patient care
2. **Quality:** be better than industry standard in the quality of our people and the efficiency of our operations
3. **Accountability:** Cultivate individual responsibility and promote personal and professional growth
4. **Innovation:** value high quality innovation
5. **Commitment:** create and maintain a positive work environment that is fun and rewarding to be a part of
6. **Teamwork:** value relationships that build respect and foster team work
7. **Communication:** utilize good communication
8. **Empowerment:** make a difference
9. **Diversity:** value diversity of people and opinion