Optical Engineer

We are currently seeking an experienced Optical Engineer to join our team in our New York, NY 10013 location.

Who We Are:
Founded in 2014, Clarapath’s mission is to transform the laboratory space and advance how hospitals provide laboratory care. Healthcare costs continue to sky-rocket and a foundational element to providing high-quality, low-cost, convenient care to patients requires constant innovation. Our company is strategically backed by one of the largest hospitals in the country, as well as visionary pharmaceutical and academic leaders. In collaboration with our partners, we hope to provide the next generation of patients with better care, as well as enable life-saving drugs for future generations.

From our fully-automated, precision sectioning technology to world-class imaging and histopathology laboratory expertise, our team represents the future of digital pathology. To continue our track record of growth we are looking for the best talent, those who take the initiative, are self-directed learners, team players, have a passion for solving complex problems and those who want to make a societal impact. We offer challenging opportunities to join a uniquely innovative company that straddles the worlds of medical devices, industrial automation and technology. To learn more about us, please visit us at http://www.clarapath.com

About the Role:
The Staff Optical Engineer will be working on medical device development as part of a tight knit development team. This role will be designing and selecting parts for the instrument as well as designing test fixtures for development; providing continuous feedback on the development process and accept feedback as well. The ideal candidate would have work experience in being part of engineering team building a medical device. We are looking for a team player who views medical device development as a competitive advantage. We are a rapidly growing business with opportunity for the right candidate to continue advancing their role and responsibilities as the company grows.

What you’ll do:
Core duties and responsibilities include the following. Other duties may be assigned by management.
- Engineering a computer vision system integrated with an automated electromechanical system, including light sources, optical components, cameras and data acquisition/processing.
- Generating drawings for parts and assemblies
- Documentation
- Modeling and simulation of design components
- Building prototypes
- Finding and managing vendors for prototyping and manufacturing
- Creating test fixtures including instrumenting with data acquisition systems and programming
- Unit and system testing of prototype designs
- Role may require some travel

Our Perfect Candidate
Education and Experience:
- MSc in Optical Engineering, Optical Physics, or in an equivalent area
- At least 6 years of experience in the field.
- Experience with engineering machine vision subsystems for robotic systems or for automation
- Experience with building optical systems for microscopic imaging
- Experience with fluorescent and IR imaging and spectroscopy
- Competency in designing an integrated system including electromechanical automation
- Proven design record
- Analytical problem solution skills, such as modeling and simulations
- Optionally, Image processing experience

Other Experiences and Knowledge:
- Working with teams in multiple sites
- Involvement in automation related extracurricular activities
- Graduate degree in a related field with dissertation
- Digital pathology experience
Required Abilities and Skills:
• Strong interpersonal, verbal, and written communication skills
• Time management skills to prioritize and meet deadlines
• Ability to work independently and as a member of a team
• Flexibility to work in a changing and fast-paced environment
• Drive, determination and ability to hit aggressive milestones/deadlines
• Proficiency in Microsoft Office Applications including Excel, PowerPoint, and Word

Company Offers:
• Competitive salary will commensurate with experience and education
• Comprehensive benefits package available: (healthcare, vision, dental and life insurances; 401k; PTO and holidays)
• A collaborative and diverse work environment where our teams thrive on solving complex challenges.
• Ability to file IP with the company
• Connections with world class researchers and their laboratories
• Collaboration with strategic leaders in healthcare and pharmaceutical world
• A mission-driven organization where every team member will be responsible for changing the standards of delivering healthcare

To Apply:
Please submit your cover letter, and resume via the ‘Apply Now’ button!

Clarapath is an equal opportunity employer (EOE) and strongly supports diversity in the workforce. Clarapath only accepts resumes from approved agencies that have a valid executed Non-Exclusive Master Staffing Agency Agreement with our company. Clarapath is not responsible for any fees or claims related to receipt of unsolicited resumes.

Keywords: Application Developer, Application Integration Engineer, Applications Developer, Computer Consultant, Information Technology Analyst (IT Analyst), Software Architect, Software Developer, Software Development Engineer, Software Engineer, Technical Consultant