



Employment Opportunity: Optical Engineer

Status: Full-time

Jan. 20, 2018

Preciseley Microtechnology is an independent, fabless MEMS product company. We are currently looking for an **Optical Engineer** to support our existing production and research and development teams.

Job Description:

The Optical Engineer will contribute to the development of free space and integrated optical sensing systems. The successful individual will immediately contribute by designing optical sensors based on free space optical elements and integrated structures. The sensors will be designed with considerations for manufacturability. They will also be responsible for working closely with System and Electrical Engineers to make sure the designed optical elements work well in a product. Involvement in the design and development of any future technologies with a focus on the design, build, test, implementation, and maintenance of optical technologies is strongly encouraged.

Key Job Functions:

- Work with internal technical team and external customers to develop new sensing system requirements
- Understand overall product requirements and how they relate to optical design
- Lead design and development of free space and integrated optics systems
- Develop optical based tools and lab setups for technology validation
- Conduct experiments with testing samples/targets and help develop understanding of sensing methodology
- Propose, design and test optical sensors for detection of various testing samples/targets
- Ensure appropriate optical packages are used to complement the firmware and hardware for optimal performance
- MEMS integration and packaging
- MEMS device reliability testing inside cleanroom
- Wafer probing system maintenance inside cleanroom
- Effectively communicate with all members of the team
- Fulfil additional work-related duties as required / assigned
- Demonstrate commitment to professional development

Required Qualifications

- Hands-on experience in free-space and integrated optical systems design
- Strong experience with setting up lab setups using free space optical setups
- Good understanding and extensive experience with one of Zemax, Code V or equivalent software
- Understanding of integrated optical system designs
- Experience with software / hardware interfacing would be an asset
- Good understanding and experience with autoCAD or Solidworks or equivalent software

Education Requirement:

- B.Sc or higher degrees in Engineering with commercial experience, Physics or technical equivalent with a background in optics

Personal Attributes:

- Entrepreneurial spirit.
- Deadline and result driven, work effectively in a rapid pace and tight deadline
- Initiative and independence – the ability to take appropriate action and anticipate team needs
- Objectivity, integrity – the ability to seek and weigh opinions and evidence – compromising where necessary on ways and means but not on principles or goals
- Professionalism – operate at the highest level of professionalism with colleagues and clients
- Problem solving - ability to see multiple ways of tackling a problem and think “outside of the box”
- Diplomacy and tact – the ability to deal effectively with colleagues and customers,
- Leadership potential – capacity and aptitude for leading a team, taking charge and motivating team members,
- Team-player – is flexible and enjoys working in a team environment

To apply, please submit your resume in **PDF format** with the subject line “**Optical Engineer Job Opening**” to: info@preciseley.com. We thank all applicants for applying however only those selected for an interview will be contacted.