

## **Position available: Foundry Yield Engineer**

**Job Description:** The Foundry Yield Engineer will be primarily responsible for continuous improvement of line and die yield for HOYA Xponent's custom wafers manufactured at its foundries. Wafer types include both silicon and III-V optical devices. The position will also work with other members of the manufacturing engineering team to monitor and drive improvements in downstream yield.

**Essential Job Requirements:** The successful candidate will:

1. Take technical ownership of the quality assurance & wafer acceptance processes for foundry wafers and the validation of known-good die;
2. Work with other members of the manufacturing engineering team to monitor downstream yield and to drive corrective actions at the foundries to address any product-level issues;
3. Regularly monitor and report on line yield for wafers and die yield for good wafers.
4. Conduct and/or coordinate failure analysis activities, regularly reporting defects in Pareto form;
5. Design, validate, and implement corrective actions to drive improvements in yield and performance;
6. Work cross-functionally with the foundry and Xponent product engineering, quality engineering, manufacturing engineering & design teams to reduce costs per chip;
7. Support introduction of new devices at the company's wafer foundries and contract manufacturers;
8. Conduct training and audits at the Company's wafer foundries and contract manufacturers to assure proper execution of production processes;
9. Support Material Planning in driving Vendor, Quality, Cost and delivery improvements;
10. Be able and willing to travel domestically and internationally to accomplish the objectives above.

**Education & Experience:** Master of Science or Bachelor of Science Degree in Physics, Chemistry, Material Science, or Electronic Engineering, or equivalent work experience.

The successful candidate will have a minimum of 3 years engineering experience in a semiconductor processing environment. Familiar with SPC methods & DOE, the candidate will have a working knowledge of semiconductor processing, device test procedures, device design & semiconductor physics, and experience with analytical tools (SEM, Auger, etc.) Prior experience in expert handling of fragile III-V wafers and dies is very desirable.

The successful candidate will have the ability to work in a structured and disciplined manufacturing environment where mistakes are costly. Teamwork and individual contribution are equally important. Strong communications both written & verbal are essential. Ability to organize and analyze data for decision making is important. Experience and skills with database software will be useful in this position.

The ideal candidate will be a self-motivated team player, well organized, and display strong interpersonal skills and cultural awareness. Experience working with off-shore contract manufacturers and foundries a plus.

For consideration, please email resumes to [resume@hoyaoptics.com](mailto:resume@hoyaoptics.com) and include "Foundry Yield Engineer" in the subject line.

**Hoya Xponent is an Equal Opportunity Employer.**