sense photonics

DEVICE CHARACTERIZATION AND YIELD ENGINEER

Sense Photonics is seeking an experienced, hands-on Device Characterization and Yield engineer to play a critical role in building the next-generation of LiDAR systems for autonomous vehicles, UAVs, industrial automation and other applications. This position will focus on the semiconductor device characterization and fabrication yield improvement for our LiDAR system. This will require a candidate with the ability to work across multiple disciplines. The candidate should be a hands-on "doer", eager to take ownership of process challenges and execute detailed instructions with minimal oversight. Innovation, communication and collaborative problem-solving abilities are required.

JOB RESPONSIBILITIES

- Develop characterization capabilities for III-V semiconductor VCSELs and related devices.
- Perform wafer-level probe and discrete device testing; feedback results to design and fabrication teams.
- Perform in-line defect inspections and end-of-line yield analysis to identify leading failure modes and enable yield improvements.
- Evaluate new device designs in terms of potential performance and yield impacts.
- Establish systems for in-line and end-of-line defect inspections.
- Document test and inspection instructions, test criteria, and non-conformance actions in support of the manufacturing quality system.
- Promote a safe work environment, employee ownership of quality and continuous improvement.

REQUIREMENTS

- Strong, in-depth understanding of device test and characterization, specific experience with VCSEL and/or other optical devices preferred.
- Experience with of a wide variety of semiconductor process and test technologies, including photolithography, automated defect inspection, and parametric test.
- Experience working with optical devices, MEMS, wafer-scale packaging, and/or novel substrates in a semiconductor cleanroom is preferred.
- Knowledge of SPC, Design of Experiments, Root Cause Analysis are preferred.
- Bachelor's Degree in Electrical Engineering, Materials Science, or an equivalent field preferred; significant relevant experience will be considered.
- 8+ years of hands-on device test experience for semiconductor devices.
- Strong analytic and communication skills, flexibility, and ability to work well in a dynamic, multi-disciplinary environment.

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ABOUT US

We are passionate about building the next generation of LiDAR systems for autonomous vehicles, UAVs, industrial automation and many other applications. Our core technology – protected by over 200 patents – enables a simple, high-performance, solid state solution with no moving parts that can uniquely meet the rigorous performance, reliability and cost requirements of the automotive industry.

Sense Photonics was founded in 2016 and is based in Research Triangle Park, NC. We are backed by several top tier venture capital firms and have already developed strong customer traction for our solution. We are building an innovative world-class company that designs and builds the world's best 3D sensors. Sense Photonics is also an equal opportunity employer – all applicants will be given equal consideration.