

Position: Semiconductor Process Integration Engineer
Location: Cork, Ireland



Description

SensL is the leading provider of low light sensors based on its solid-state single photon avalanche diode (SPAD) and silicon photomultiplier (SiPM) technology. SPAD and SiPM sensors are a disruptive and enabling technology that replaces the aging vacuum tube based photomultiplier, avalanche photodiode and PIN photodiode in Medical Imaging, Radiation Detection and Automotive LiDAR for ADAS and Autonomous Vehicles. SensL has pioneered the production of its sensor technology in high volume, industry standard, CMOS fabrication facilities delivering unprecedented performance, uniformity, quality, reliability and low cost. SensL enables OEM customers to develop new classes of products based on our low light sensors performance, size, robustness and low power operation. SensL provides the ideal candidate with a unique opportunity to work with a profitable, growing, high tech company involved in the latest technology trends such as self-driving autonomous vehicles, cancer detection and cloud based radiation detection.

The Semiconductor Process Integration Engineer will work directly with SensL's foundry partners on process and test development for new products and assist in process improvement of existing production processes. The candidate will engage with the foundry process and test integration counterparts and will be responsible for new product introduction and manufacturing ramp of new products in SensL's analog SiPM and CMOS+SPAD product families. This position will suit a highly motivated technically minded individual with process integration experience who desires to work with a rapid growing company on both process and product development.

Experience and Skills Desired

- Design and manufacturing experience of semiconductor optoelectronics
- Experience with process development and CMOS process module integration
- Use of process monitoring tools to evaluate the performance of a manufacturing process and improve product yield
- Proven experience using simulations tools to realize new sensor concepts
- Strong silicon device physics knowledge
- Excellent analytical and problem solving skills
- Ability to work closely with others in a cross-functional team environment
- Experience working with production test and volume data analysis

Key Responsibilities

- Support daily production issues in real-time as well as leading the analysis of failures on the wafer fabrication and testing production line
- Lead new product tape out design reviews and interaction with outsource foundry to initiate foundry production
- Lead production ramp on new products with proven ability to develop products from concept into mass production

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Qualifications

- Electrical Engineering, Microelectronics, Optoelectronics or Physics degree and suitable industrial experience
- M.Sc. or Ph.D. and/or relevant work experience desired
- Excellent verbal and written communications skills
- Strong interpersonal skills and an ability to work well in a team

Additional Information

This position is at the Senior Engineer level and carries an attractive salary, stock options, health coverage and employer pension contribution. This position is full time and based at SensL's corporate headquarters in Cork, Ireland. Please send your CV/Resume to jobs@sensl.com