

Position: Semiconductor Device Physicist
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. The main markets for our products are 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 vehicles, cancer detection and cloud based radiation monitoring.

The Semiconductor Device Physicist will lead SensL's research of their next generation optical sensors. The Semiconductor Device Physicist will work directly to aid SensL's understanding of sensor structure, physics of operation and laboratory testing methodology. Ultimately the work from the Semiconductor Device Physicist will lead to the development of sensors approaching the theoretical maximum levels of performance. This position will suit a highly motivated technically minded individual who seeks to help turn device theory into realizable products.

Experience and Skills Desired

- Strong semiconductor device physics knowledge required
- Test expertise and experience with precision physics based measurements
- Proven ability to work with and develop semiconductor device physics models
- Hands on experience with TCAD device simulation and modelling tools
- Experience with optical sensor technologies required
- Experience with silicon semiconductor foundry processing
- Experience working in a high-tech laboratory environment

Qualifications

- Device physics background from a suitable Electrical Engineering, Microelectronics, Optoelectronics or Physics degree
- M.Sc. or Ph.D. and/or relevant work experience
- 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 to Principal 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