

Position: Semiconductor Device Physics 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. 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.

### *Specific Responsibilities*

- Identify device and process architectures that deliver new product specifications.
- Define device architecture, technology design rules and fabrication process flows.
- Create technology process flows and drive process and device optimization.
- Facilitate process improvements and/or fixes for problems of process variation, poor reliability or low yield.
- Provide the link between device and process architecture and final test data and laboratory characterization.
- Develop semiconductor device physics and optical models that result in insights into device operation and identification of opportunities for improvement

### *Qualifications*

- Device physics background from a suitable Electrical Engineering, Microelectronics, Optoelectronics or Physics degree
- Technical degree with 2 to 5 years relevant work/post doc experience
- Experience with TCAD software
- Excellent verbal and written communications skills
- Strong interpersonal skills and an ability to work well in a team

### *Additional Information*

This position 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](mailto:jobs@sensl.com)