

JOB DESCRIPTION

Job Identification	
Position Title	R&D Engineer (SOA)
Division/Dept./Section	Technology/New Product Development
Job Objective/s	
Develop & test optoelectronics devices, including but not limited to FP lasers, gain chips, semiconductor optical amplifier, and their packaged modules, as well as photonics systems such as external cavity lasers to meet design goals and requirements.	
Duties and Responsibilities	
<ul style="list-style-type: none"> • Analysis of optoelectronics device functional and reliability performance characterization and test results, referencing to the state-of-art, simulated performance, data-mining internal test-results data-base, and refine design, fabrication specifications, and simulation model and parameters to optimize fit • Develop software tools for analysis and reporting of laser diode performance data • Develop numerical modelling tools used in the design and prediction of laser diode performance • Support and execute device test and characterization methodologies to extract basic intrinsic parameters of optoelectronics devices (i.e. support testing and analysis of engineering devices) • Monitor and report performance (characterisation and reliability) of the laser diode designs to the NPD team. • Build up database of optoelectronics device testing and characterisation data. • Work with interdepartmental teams and external teams to ensure design objectives are met. • Participate in the design and setup of new test systems needed to measure laser diode performance • Participate in design reviews with internal and external customers 	

Qualification Guidelines	
Minimum Education	<ul style="list-style-type: none"> ○ Masters of Science or PHD (in semiconductor based light emitting optoelectronics preferred)
Minimum Experience	<ul style="list-style-type: none"> ○ Minimum 6 years' working experience with technical background in optoelectronics and wafer fab processes in optical laser component, photonics device system and sub-system ○ Proven working experience in optoelectronics design and program/project management in the manufacturing industry
Specific Knowledge / Skills	<ul style="list-style-type: none"> ○ Excellent written and verbal communication skills ○ Proven organizational skills and multi-tasking skills