

JOB DESCRIPTION

Job Identification	
Position Title	R&D Laser Engineer (Semiconductor Optical Amplifier SOA)
Division/Dept./Section	Technology/New Product Development

Organizational Relationship	
Reports to	VP, Engineering
Supervises	Nil

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 • All other reasonable duties, as assigned

Authorities
<ul style="list-style-type: none"> • Interfaces with other departments concerning quality and assure that effective corrective action or improvement is implemented.

Measures of Performance	
Key Result Area	Measure of Performance

Qualification Guidelines	
Minimum Education	<ul style="list-style-type: none"> ○ 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	<input type="radio"/> Excellent written and verbal communication skills <input type="radio"/> Proven organizational skills and multi-tasking skills

Acknowledge By Employee Upon Commencing

Employee's Name			
Employee's signature		Date	

Please forward resume to DenseLight HR at hr_recruitment@denselight.com