



JAC Recruitment

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Singapore



## PR/095126 | Senior / Principal Laser Development Engineer

### Job Information

**Recruiter**

JAC Recruitment Singapore

**Job ID**

1540480

**Industry**

Electronics, Semiconductor

**Job Type**

Permanent Full-time

**Location**

Singapore

**Salary**

Negotiable, based on experience

**Refreshed**

May 20th, 2025 12:18

### General Requirements

**Minimum Experience Level**

Over 3 years

**Career Level**

Mid Career

**Minimum English Level**

Business Level

**Minimum Japanese Level**

Business Level

**Minimum Education Level**

Associate Degree/Diploma

**Visa Status**

No permission to work in Japan required

### Job Description

#### Company and Job Overview

This ambitious company aims to establish themselves as the worldwide leader in chip-scale photonic solutions by applying optical technology to ensure the seamless integration of electronics and photonics across a wide variety of vertical market applications.

#### Responsibilities

Design and develop optoelectronics devices, including but not limited to FP lasers, DFB lasers, gain chips, SLEDs, semiconductor optical amplifier, electro-absorption modulator/laser, photonics integrated circuits and their packaged modules, as well as photonics systems such as external cavity lasers to meet design goals and requirements.

Perform simulation of optoelectronic devices (CrossLight, ALDS, Optiwave), optical ray tracing (Zemax, Optalix), thermal (Solidworks) and electrical (5Spice) properties of optoelectronics devices

Analysis of optoelectronics device epi growth and wafer fabrication process integration, device functional and reliability performance characterization and test results, referencing to the state-of-art, simulated performance, data-mining internal test-results database, and refine design, fabrication specifications, and simulation model and parameters to optimize fit between design and measured outcomes

Report generation of design and simulation outcome with support of experimental data, where available

Build up database of optoelectronics device design white papers, and management of all design documentation repository.

Maintenance of all engineering software, as well as training of new users to the respective software

Define and develop device test and characterization methodologies to extract basic intrinsic parameters of optoelectronics devices

All other reasonable duties, as assigned

#### Job Requirements

At least bachelor's degree in electrical engineering or equivalent fields

Minimum 3 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

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#### Company Description