

PR/161412 | Applications Engineer / Senior Applications Engineer (Photonics Test & Burn-In)

Job Information

Recruiter
JAC Recruitment Malaysia

Job ID
1623922

Industry
Electric Power, Gas, Water

Job Type
Permanent Full-time

Location
Malaysia

Salary
Negotiable, based on experience

Refreshed
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General Requirements

Minimum Experience Level
Over 3 years

Career Level
Mid Career

Minimum English Level
Fluent Level

Minimum Japanese Level
None

Minimum Education Level
Associate Degree/Diploma

Visa Status
No permission to work in Japan required

Job Description

Company Overview
A technology-driven company specializing in the design and development of advanced automated test solutions for the semiconductor industry is seeking Applications Engineers / Senior Applications Engineers to support the development and deployment of advanced photonics test and burn-in solutions for laser devices, including Chip-on-Carrier (CoC) and Chip-on-Submount (CoS).

This role is ideal for engineers who enjoy working across both hardware and software, developing automated test programs, troubleshooting complex technical challenges and engaging directly with customers.
You will be involved throughout the project lifecycle, from understanding customer requirements and developing test solutions to system integration, customer demonstrations and production deployment. The role also offers opportunities for local and international travel, providing exposure to overseas customers and advanced photonics technologies..

Key Responsibilities:

- Work closely with customers to define device testing requirements, burn-in conditions and production workflows.
- Develop automated test programs and sequences for laser devices, including CW lasers and EML.
- Perform electrical and optical measurements, including LIV curves, threshold current, optical output power and other device characterisation parameters.
- Configure and integrate test instruments, including SMUs, laser current drivers, optical power meters and temperature controllers.
- Develop DC and pulsed-current testing methods with appropriate measurement controls and device protection.
- Support the design and development of DUT boards, sockets, fixtures and electrical/optical interfaces.
- Develop burn-in sequences incorporating temperature control, device monitoring, alarms and data logging.
- Troubleshoot test system performance, measurement accuracy, repeatability and optical/electrical connectivity.
- Analyse test data to identify device abnormalities, performance variations and production issues.
- Support system installation, commissioning, qualification and production ramp-up at customer sites.
- Manage customer technical issues and coordinate with internal engineering teams to ensure timely resolution.
- Prepare technical documentation, application notes, test procedures and customer training materials.
- Travel locally and internationally to support customer projects.

Job Requirements:

- Bachelor's degree in Electrical/Electronic Engineering, Photonics, Optoelectronics, Applied Physics or a related discipline.
- Relevant experience in semiconductor testing, laser-device characterisation, photonics applications, reliability testing or test
- automation.
- Strong technical knowledge in areas such as analog electronics, precision measurements, laser devices, optical measurements or automated test systems.
- Programming experience in C, C++, C# or Python.
- Strong troubleshooting, analytical and problem-solving skills.
- Good communication skills and confidence in dealing directly with customers.
- Fluent in English and Mandarin, with Mandarin required for customer engagement in China.
- Self-motivated, collaborative and willing to travel locally and internationally.

Additional Advantages:

- Experience in CoC/CoS laser testing, laser-diode manufacturing or photonics burn-in systems.
- Familiarity with CW, DFB or EML laser-device characterisation.
- Experience with precision current sourcing, pulsed-current measurements and low-current measurements.
- Knowledge of optical power calibration, optical alignment and measurement correlation.
- Experience with TEC control, temperature sensing and thermal fixture development.
- Familiarity with multichannel test systems, production automation and manufacturing data integration.
- Experience in DUT board design, instrument communication and equipment integration.

Notice: By submitting an application for this position, you acknowledge and consent to the disclosure of your personal information to the Privacy Policy and Terms and Conditions, for the purpose of recruitment and candidate evaluation.

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