



## Laser Process Engineer

Based in West Lothian, **Kaiam** is an emerging market leader in the research, development and manufacturing of optoelectronic equipment used within data-communication centres and the telecommunications industry. Founded by leading technologists from the optical networking industry, the team has a track record of delivering breakthrough approaches that change the rules of the marketplace.

To support our continued growth, we are recruiting for a **Laser Process Engineer**, reporting to the Optical Device Engineering Manager. The Laser Process Engineer is responsible for the performance and quality of the Laser Trim process performed on our Planar Light Circuit (PLC) products, produced within the Kaiam Fabrication plant in Livingston, Scotland.

The primary purpose is to maintain, optimise and develop the 244nm argon ion gas lasers that are used to write corrections onto our silica-on-silicon wafer based products. The role focusses on continuous improvement in the Processing and Manufacturing methods (Process Engineering) used in the Laser Trim unit. Responsibility for Production Support as well as introduction of new products into the line (NPI) comes with the role. This involves developing the processes, methods and documentation to allow this to happen.

The Laser Process Engineer shall work closely with the Test Engineering, Yield Engineering, Production and Design teams to achieve their objectives and the larger group's goals. They shall ensure that the Laser Trimming process is controlled, available and capable of achieving the desired results from our 24/7 manufacturing line.

### Duties & Responsibilities:

- Daily inspection, maintenance, optimisation and alignment of 244nm Argon ion gas laser systems used in a 24/7 UV wave-guide production trimming application
- Inspection and troubleshooting of optical/opto-mechanical production process rigs
- Set-up and configuration of electronic and automated test equipment
- Production support to sustain a 24/7 process through implementation of effective systems and documentation
- Work with outside suppliers and contractors who supply key lasers parts and responsible for site visits to install replacement plasma tubes. Ensure this is done with minimal impact on production activities



- Characterisation of laser performance against process results
- Work with engineering and production staff to troubleshoot issues related to yield issues and wave-guide trimming efficiency and process monitoring
- Research and development activities related to process improvement and ways to improve laser performance and stability
- Report on Laser Trim performance to management and wider engineering group
- Introduce new products into the Laser Trim process, setting up documentation, inspections and data capture methods
- Pilot processing of new products to test the capability of the manufacturing process to allow the transition of manufacturing responsibility to Production
- Analyse manufacturing data, report on yields and determine root causes for main yield detractors, driving improvement projects to maximise performance
- Provide guidance and assistance to Operators in their day to day running
- Perform technical tests and experiments for process development, preparing records, charts and graphs of results for presentation

#### Essential Requirements:

- Education - Degree qualified in physics / optoelectronics engineering or similar
- Background and hands-on industry experience working with laser systems and photonic instrumentation
- Experience of characterising and aligning laser systems, ideally within a busy production and manufacturing environment
- Positive can-do attitude a necessity

#### Desirable:

- Knowledge of manufacturing process control methods is highly desirable
- Ability to work with technical colleagues and teams across different company departments.
- Strong communication and organisational skills



- Good reporting and technical data analysis skills
- Excellent problem-solving ability; working knowledge of problem solving techniques and best practices such as Six Sigma is desired
- Team player, able to provide leadership to others and work under their own initiative

In exchange, we offer a competitive salary (based on experience), life cover, pension, cycle to work scheme and generous holidays.

Kaiam always strives for excellence so if you can bring us relevant qualifications and experience to help us achieve this then we would like to hear from you. We are looking for employees with talent and potential, so if you're upbeat and motivated why not join us and be part of something exceptional?

If you feel you can successfully fulfil this role, please apply by sending your CV to: [recruitment\\_uk@kaiamcorp.com](mailto:recruitment_uk@kaiamcorp.com)