

Manufacturing Engineer - Optical

An exciting opportunity is available to join a dynamic manufacturing team within a leading fiber laser company at the UK facility near Southampton. NKT are looking for an enthusiastic manufacturing engineer to help in process development for the manufacturing of advanced ultrafast fiber laser systems for scientific, industrial and medical markets.

Job Summary

You will be working within a small but dynamic team involved in small/medium-volume manufacturing of high-tech laser systems. As a Manufacturing Optical Engineer, you will be responsible for the implementation and maintenance of sound optical manufacturing processes on the shop floor. You will be involved in deploying the necessary manufacturing control techniques, as well as in the design and maintenance of a test-data storage architecture. A major part of the Optical Engineer Role is process development, with a heavy emphasis on control of experiment techniques.

Principal Responsibilities

- Implement and maintain optical manufacturing processes, centered on stripping, cleaving, and splicing of optical fibers
- Support and (where needed) redesign the test-data storage architecture for products
- Support the transfer of new product designs from Engineering to Manufacturing
- With regard to your area of responsibility, promote inter-site cooperation with manufacturing teams from other NKT sites
- Implement and maintain manufacturing control techniques for optical processes, as required by the current product line
- Work with production operators to solve assembly line problems in a timely and efficient fashion
- Supervise equipment maintenance and calibration, in line with process control requirements
- Liaise with other departments and report back on design, quality, and safety issues with the current production line
- Assist in the qualification of optical component suppliers, ensuring that components are fit-for-purpose and meet manufacturing requirements
- When required, supervise the workflow of lasers on the shop floor, ensuring timely delivery of finished product

Key interactions

- Production operators
- Members of the Production Engineering team (mechanical and electronics/software)
- Members of the R&D and Design Engineering team
- Quality Department
- Laser Safety Officer

Qualifications - Skills – Experience

- Proactive and positive approach to problem-solving
- University degree (MSc or higher) in laser physics or related field – or similar
- At least 1 year experience in a manufacturing environment
- Demonstrable hands-on experience with optical fiber processing tools
- Experience in implementing process control techniques
- Good command of English language, both spoken and written
- Very good communication skills; able to communicate with people at different levels, from R&D scientist to production operator
- Ability to work to tight deadlines
- Good self-organization skills, ability to prioritize tasks

Travel Requirements

- <10% travel annually, primarily internationally visiting other NKT sites

Applications and requests for additional information should be made in English and directed to careers-uk@nktphotonics.com.

NKT Photonics is the leading supplier of high performance fiber lasers and photonic crystal fibers. Our main markets are within imaging, sensing and material processing. Our products include pulsed lasers, such as supercontinuum sources, low noise fiber lasers, distributed temperature sensing systems and a wide range of specialty fibers. NKT Photonics has its headquarters in Denmark with sales and service worldwide. NKT Photonics is wholly owned by NKT Holding A/S. More information on NKT Photonics can be found at <http://www.nktphotonics.com>