

# Laser Engineer, UK

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

## Job Description

A new and exciting position has become available for a laser engineer to work within the R&D team to help in the development of the next generation of our ultrafast lasers. Working within a small multi-disciplinary team, you will be responsible for supporting both the R&D and production teams in the assembly and testing of advanced laser solutions, custom products and prototypes and offering expertise in experimental optical setups for system characterization and new product developments.

The candidate should have a high level of hands-on experience with free-space laser optics and preferably fiber optics and be familiar with ultrafast laser beam diagnostics. They will need to demonstrate a high level of attention to detail and commitment to quality and be able to take ownership of custom product completion, working on their own initiative to trouble-shoot, solve issues and make improvements within tight deadlines. They will need to report on product developments, issues and test results to other areas of the business and as such, good communication skills are paramount. The successful candidate will be capable of managing their own time and prioritizing effectively such that a variety of different tasks will be completed on time.

## Key Responsibilities

- Taking ownership of final assembly and testing of custom or prototype laser systems and preparing documentation prior to delivery to end users
- Interfacing with our mechanical, electronics engineering teams to resolve issues and suggest design improvements
- Interfacing with sales and support teams to provide updates on product developments and technical advice on customer enquiries as well as assisting with after sales support and repairs/upgrades
- Designing, setting up and running experiments, feasibility studies and testing of prototypes
- Documenting build procedures in the form of work instructions and training production personnel to manufacture new systems
- Use knowledge and experience to generate new cost effective and timely solutions to problems
- Support dissemination of knowledge internally in order that teams are informed of relevant progress on solutions and issues
- Prepare and deliver presentations/reports and necessary quality documentation describing progress, technical performance and procedures on projects and assignments

## Required Skills and Experience

- Minimum of a 2.1 in a first degree in physics or physical sciences or equivalent
- Strong knowledge and hands-on experience of lasers, free space optics and fibre optics

- Good understanding of opto-mechanical assemblies and basic understanding of electronics for commercial laser systems
- Familiarity and / or experience with ultrafast laser diagnostic equipment
- Familiarity or experience with AOM/EOM optical modulators, non-linear harmonic generation or optical pulse compression would be beneficial
- High level of commitment to quality and attention to detail with drive for continual improvement of products
- Excellent team player
- Strong communications skills, both oral and written
- Documentation skills – MS Office
- Familiarity with software such as Labview and Matlab would be an advantage
- Ability to work on own initiative in a small multi-disciplinary team
- Ability to communicate and present ideas to other engineers and across the business
- Strong organisational skills to be able to work on multiple concurrent activities

### **Travel Requirements**

- Occasional field servicing and installation of laser systems and travel to NKT Photonics offices in Europe
- Up to 10% away from UK per annum

Applications and requests for additional information should be made in English and directed to [careers@fianium.com](mailto:careers@fianium.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>*