LUMENISITY®

Connect. Light. *Faster.*

Optical Fibre Process Engineer

Lumenisity is an established independent company originally spun out from the world-renowned Optoelectronics Research Centre (ORC) at the University of Southampton. We have brought to market novel optical fibre technologies based on Hollow-Core Technology for a variety of end user applications. Our goal is to be the world's premier high-performance hollowcore fibre optic cable solutions provider offering customers reliable, deployable, low latency and high bandwidth connections that unlock new capabilities in communication networks.

Well-funded from a consortium of industrial and private investors and having recently built our own state of the art fabrication facility in Romsey, we are now looking to further expand our team and infrastructure to work both independently and in continued collaboration with the ORC. We have recently announced significant contracts and collaborations with major carriers and end users as well as key companies in the telecom and datacom eco system.

We seek dynamic candidates with energy and a passion for innovation to join and work with us in a fast growing, multidisciplinary team to bring next generation products to market. This creative environment is one in which we anticipate people will develop professionally within a high growth company. In return we can offer a competitive compensation package and a commitment to exciting product development into a fast-developing field.

What you will do:

You will report to the Fibre Engineering Manager and work on fabrication technologies for radically novel optical fibres, including glass preform manufacture, optical fibre drawing and associated processes.

The role will involve close interaction with the R&D team to take new fabrication methods for next generation fibres and turn them into robust and reliable processes that can be successfully transferred into volume manufacture by the production team.

Additionally, you will be required to support the scaling up of the new fabrication facility to meet customer demand and company ambition.

Your key day to day responsibilities will include:

- Having direct responsibility for the development, transfer and implementation of manufacturing processes for preform and fibre fabrication and optical fibre drawing
- Contributing to the development and management of documentation in support of process technology, operating procedures and process control requirements
- Developing and deploying process control tools and analyse measurement data to identify trends and correlations
- Operating and monitoring state-of-the-art optical fibre manufacturing equipment within a quality management and safety conscious environment
- Supporting production to ensure operating procedures are efficient and fit for purpose
- Managing projects to identify novel and improved manufacturing methods
- Having key responsibilities in the development of next-generation products
- Collaborating with equipment suppliers on technology development and process equipment requirements and improvements
- Contributing in first person, and visibly support, the establishment and maintenance of a safe work environment
- Supporting the scale-up of the new fabrication facility in Romsey

Key skills and experience sought are:

- An engineering qualification in a related subject area (physics, chemistry, process management or similar)
- Practical experience of developing and documenting manufacturing process
- Proven experience in transfer to production
- Implementation of statistical process control methods and their application
- Improvement in yield through identification and reduction of waste and stabilisation of production processes
- Practical knowledge of optical fibres and their properties preferred
- Use of lean problem solving and continuous improvement methodologies and practices
- Demonstrated ability in innovative development and practical application
- Experience in the operation and use of high value capital equipment
- Knowledge of cleanroom working environment and disciplines

- Capability to arrange and analyse data to identify trends and correlations
- Knowledge of full product lifecycle from concept through to production

Key attributes sought are:

- Ability to work across multiple tasks methodically and efficiently and meet committed timescales
- Able to deliver technical updates of status on agreed work schedules
- Happy to work in a dynamic environment and adaptable to changes in priorities
- Ability to integrate into multi-disciplinary and cross-functional teams
- Hands-on, creative approach to problem solving and the ability to translate engineering requests into working solutions
- Self-starter with good interpersonal skills and a strong execution-oriented approach
- Must be diligent, focused and thorough, taking personal pride in their work and achievements
- Willing to work on shifts as required

Location:

Until construction of Lumenisity's own optical fibre manufacturing facilities is completed on the main site in Romsey at the start of 2022, the optical fibre fabrication activities are located within the Optoelectronics Research Centre at the University of Southampton.