

Principal Software Development Engineer

Lumenisity® Limited is a spin out company from the Optoelectronics Research Centre (ORC) at the University of Southampton and is developing novel optical fibre technologies for a variety of end user applications. We have secured substantial funding from a consortium of industrial and private investors and, having recently obtained planning permission to develop a state of the art fabrication facility in Romsey, we are now looking to further build out our own team and infrastructure to work both independently and in continued collaboration with the ORC.

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 be working across the operations and engineering groups, responsible for the architectural design and development of process and test software applications and associated databases.

Duties and responsibilities:

- Establishment of test software requirements by interactions with design, process, and qualification functions together with manufacturing operations
- Development of automated test system software for the characterisation of optical fibre and cable products for product qualification and manufacturing test
- Design of database architecture and implementation to ensure data integrity and security
- Development of a database for the storage and analysis of test data, application of test specifications and reporting capabilities to support the business needs
- Design and development of a database for the storage and analysis of fibre manufacturing process data and reporting capabilities to support process improvement programmes
- Adherence to company governance and quality processes and support for the maintenance of a safe work environment
- Database and server maintenance

Key skills:

- Technical management of projects with schedule, financial and resource planning
- Test requirements capture, tracking and producing acceptance specifications
- Software design in LabVIEW & Python languages, including test GUIs
- Instrument automation via GPIB, RS-232, USB and Ethernet
- Working knowledge and active use of Git and SVN source code control
- Understanding of structured query language (MySQL)
- Knowledge of 'relational database management systems' (RDBMS)
- Experience with database software/web applications
- Capability to arrange and analyse data to identify trends and correlations
- Experience with measurement uncertainty analysis, gage repeatability and reproducibility
- Ability to estimate effort required to deliver a project while supporting multiple projects and applications
- Proficiency with Microsoft Office
- English language: high level written and spoken, both colloquial and technical
- Ability to work quickly, under pressure and to deadlines

Key attributes:

- Strong analytical and organisational skills
- Teamwork and collaboration
- Capacity to clearly communicate ideas, status, issues and proposals
- Logical and scientific attitude when dealing with problems
- Willing to accept challenges
- Fast learning, adaptable and flexible

Qualifications and experience:

- BSc 2.1 or higher degree in Software, Engineering, Physics or other scientific discipline with 5+ years' experience in test and measurement system instrumentation and integration in a manufacturing environment
- Certified LabVIEW Architect (CLA)