EC&I Engineer

Category	Engineering
Based in	Lancaster, UK
Line Manager	Principal EC&I Engineer
Salary Range	£45,000

About Us

NanoSUN is a fast-growing start-up company that provides hydrogen fuelling equipment and green hydrogen fuel to the fuel cell industry. The company has built and sold small scale prototype equipment for hydrogen refuelling to multiple customers and segments. It has secured funding to commercialise small scale refuellers and develop a range of mobile hydrogen refuelling stations for trucks, buses & cars. Recently, NanoSUN completed its first large-scale refueller prototype and received €2.5 million in European Innovation Council funding to support development of this system, and subsequent field-trials. NanoSUN is an expanding company, with the current team made up of highly experienced industry experts coupled with graduate, PhD and post-doctoral engineers and scientists.

About the Role

Principal Responsibilities:

The Electrical, Controls and Instrumentation Engineer is the core role at the heart of the EC&I Team and NanoSUN. This role is responsible for the design, integration, commissioning and regulatory approval of robust, safe and novel systems for Hydrogen Refueller products

The EC&I Engineer is also responsible for continued in-field evaluation of products through remote analysis and on-site visits and will work to rectify any arising issues and make product improvements throughout their lifecycle.

The EC&I Engineer also holds responsibility for working-level project management of their tasks, including integration of these task into wider program-level plans held by the Principal EC&I Engineer, Senior Project Engineer or Leadership Teams.

The EC&I Engineer role reports into the Principal EC&I Engineer.

Key responsibilities include:

- Collaborating across the NanoSUN team, in particular with Project Engineers, Mechanical Engineers and Technicians to complete detailed design of revolutionary products
- Liaising with clients, suppliers, contractors, and relevant authorities to determine the most appropriate design methodologies and decisions
- Understanding and ensuring compliance with relevant regulatory, health and safety and quality standards
- Sourcing and purchasing of equipment, software and relevant licences
- Design, implementation, and commissioning of:
    - Programmable logic controllers (PLC)
    - Human Machine Interfaces (HMIs)
    - Supervisory control and Data Acquisition (SCADA) and remote asset management including IoT (Internet of Things) technology
    - Pneumatically and electrically actuated process control equipment
- Implementing ATEX regulations within new and existing designs
- Producing design documentation, including; schematics, drawings and BOMs using industry standard software packages

- Testing, evaluating, modifying and calibrating products and instruments
- Project management of project EC&I workstreams, including management of budget and resource
- Application of SIL (safety integrity level) equipment
- Application of Safety Instrumented Systems (SIS) to IEC 61511 – Design of Safety Critical Circuits

About You

Core Skills:

- Minimum BEng in Electrical Engineering or related discipline
- Successful hands-on experience of PLC and HMI program development and deployment
- Preferred candidates will have a Level 3 Award in "Requirements of Electrical Installation" – BS7671 (18th Edition)
- Preferred candidates will hold previous on-site safety training, e.g. CCNSG Safety Passport, CSCS or equivalent
- Preferred candidates will hold CompEx Ex12 – "Application Design Engineer" certification
- Relevant and successful experience of working within small teams
- Independent approach to assigned work, good at working in highly ambiguous conditions
- Strong analytical and numeracy skills
- Strong problem-solving skills with high attention to detail
- A strong grasp of EC&I engineering principles. It is preferred if the candidate has experience in how these principles apply in a chemical process control context
- Preferred candidates will have sound knowledge of computer aided design (CAD) software, technical drawings and 2D circuit modelling
- Understanding of safe working practices, including safe isolation. Certification in the use of safe isolation techniques is preferable
- Experience in version control and management of logic code
- Excellent written and verbal communication skills
- An understanding of manufacturing processes and construction methods
- Ability to plan and organise through several project stages
- An appreciation of wider business demands

What we Offer

- Salary Range: £40,000-£45,000 dependant on experience
- Pension Scheme
- 27.5 holiday plus bank holidays
- Flexible working hours
- Free on-site parking
- Opportunities for professional development
- Cycle to work scheme
- Discounted staff membership to onsite gym

How to Apply

To apply please email the following to recruitment@nanosun.co.uk stating the job title in the subject line.

- A full CV
- Current remuneration details
- Confirmation of your eligibility to work in the UK

We are an equal opportunities employer and welcome applications for all suitably qualified persons regardless of their race, sex, disability religion/belief, sexual orientation, or age.