

<b>TITLE</b>	Controls & Instrumentation Engineer
<b>REPORTING TO</b>	Controls and Instrumentation Manager
<b>WHERE &amp; WHEN</b>	Wallyford, East Lothian  Monday – Friday  37 hours per week
<b>ABOUT US</b>	
<p>Here at LOGAN ENERGY, we are INNOVATIVE, ENGAGING, and FAST-PACED, and our goal is to deliver the future today. If you're INQUISITIVE, CREATIVE, and enjoy working collaboratively with like-minded people, this is the place for you.</p> <p>Logan Energy has extensive experience and a proven track record in delivering projects and solutions in the hydrogen and clean energy sectors. We specialise in integrated engineering solutions incorporating hydrogen technologies including, production, refuelling, storage, distribution, and fuel cells. We offer a full turnkey service from project inception and feasibility, design development, manufacture, installation, operation, and maintenance.</p> <p>We have over twenty-six years of expertise in hydrogen and fuel cell technologies and to date we have built and installed hydrogen production &amp; refuelling stations for the UK and European markets and have also installed, commissioned and maintained over 1MWe of fuel cells providing heat, power and cooling in landmark buildings in the UK.</p>	
<b>PURPOSE OF ROLE</b>	
<p>Candidates will be involved with design of electrical and control systems for Hydrogen / Renewable energy projects typically undertaking systems software and configuration design, testing and commissioning along with support and fault finding.</p> <p>As a Controls Engineer you will work as part of a multi-disciplined team developing PLC-based control systems for systems supporting the various use-cases of Hydrogen.</p> <p>The role will require you to work closely with other Mechanical and Process engineers through the design process and with producing system documentation. In addition to the Engineering team, you will be required to work closely with other / support departments such as, Quality, Purchasing and Production.</p>	
<b>DUTIES</b>	

- Design Electrical and control systems, control networks and specifying associated hardware.
- Support the development of the controls software for the energy systems that H2Tec are building
- Producing HMI screens or other Operator interfaces
- Producing project documentation such as a Functional Design Specification, FAT Procedures, IO lists etc.
- Testing of Control panels and control software.
- Verification of Design vs Build
- Produce system drawings and maintain drawings through the internal revision control procedure and issue an “As built” set of drawings to the customer.
- Liaise with suppliers to ensure timely delivery and explore new technologies that may help increase efficiency within the Design / Production process.

### **MAIN DELIVERABLES**

- Work in a team with Mechanical and Process engineers in defining the operating and control philosophy of the system being designed.
- Produce / contribute towards producing required project documentation.
- Partaking in HAZOPs, system safety analysis.
- Designing electrical systems compliant with the ATEX Directive. (Desirable)
- Design Operator Control Interfaces. (Desirable)
- Assist with Pre-FAT Testing and commissioning activities.

### **PERSON SPECIFICATION**

#### **Qualifications**

- Degree in a related degree (software/computing/electrical)

#### **Knowledge and Experience**

- Ability to produce electrical and control system design.
- Knowledge of motor control and various methodologies.
- Ability to specify cables based on system requirements.
- Experience with testing and commissioning of system.
- Good working knowledge of Microsoft Office Suite including SharePoint
- Experience of supporting multiple senior stakeholders (desirable)
- Capable of meeting deadlines in a fast-paced quickly changing environment
- Demonstrable experience in taking responsibility and ownership of office organisation, and deadline compliance

#### **Skills**

- Solution-oriented, demonstrating a willingness to own and solve problems proactively, a resourceful and can-do attitude
- Ability to work effectively under pressure and to prioritise challenging and competing deadlines (able to multitask) daily.
- Basic experience with programming Siemens PLCs, HMIs
- Awareness of various control system communication protocols
- MS Office Suite
- Excellent problem-solving skills
- Looking to learn on the job
- Good interpersonal skills
- Self-sufficient and adaptable