**Green Cat Renewables Job Advertisement – Instrumentation and Controls Engineer (Hydrogen)**

Location: Edinburgh or Glasgow

**The Company**

Green Cat Renewables (GCR) is a dynamic, innovative company that provides the complete range of technical services required to deliver renewable energy projects (wind, solar, BESS, hydrogen and hybrid). The team of over 90 Engineers and Environmental Consultants deliver projects on behalf of clients from four offices in Edinburgh, Glasgow, Livingston and Biggar. GCR also works closely with its three sister companies Green Cat Hydrogen and Green Cat Contracting based in the UK and Green Cat Renewables Canada based in Calgary and Halifax.

Through the Engineering Department, the company provides Engineering Consultancy and Project Management services to Clients. We are now growing our hydrogen focussed team within the department to support the development of electrolytic hydrogen projects as part of the global energy transition and de-carbonisation strategy. As a key part of this team, we are seeking a skilled Instrumentation and Controls (I&C) engineer to take leadership of the I&C strategy for our projects. This will involve all aspects of the I&C development, from initial requirements through to commissioning and operations.

**The Role:**

* Design and implement control systems tailored for hydrogen production, emphasising process optimisation, safety, and sustainability.
* Interpret User Requirement Specifications and develop Functional Design Specifications, Control Narratives, and Philosophy Documents tailored to chemical process control systems.
* Lead the integration, testing, and validation of control systems, including functional testing (FAT/iFAT/SAT) and field trials, ensuring system compatibility and compliance with design specifications in chemical environments.
* Collaborate closely with project management and external stakeholders to define and meet project deliverables, with a focus on optimising chemical processing and control.
* Conduct root cause analysis and problem-solving for process-related issues in chemical engineering, enhancing system performance and reliability.
* Prepare detailed reports and documentation for design, testing, and operational procedures, ensuring adherence to industry standards and safety regulations.

**The Candidate:**

*Essential*

* Design and implement control systems tailored for hydrogen production, emphasising process optimisation, safety, and sustainability.
* Interpret User Requirement Specifications and develop Functional Design Specifications, Control Narratives, and Philosophy Documents tailored to chemical process control systems.
* Lead the integration, testing, and validation of control systems, including functional testing (FAT/iFAT/SAT) and field trials, ensuring system compatibility and compliance with design specifications in chemical environments.
* Collaborate closely with project management and external stakeholders to define and meet project deliverables, with a focus on optimising chemical processing and control.
* Conduct root cause analysis and problem-solving for process-related issues in chemical engineering, enhancing system performance and reliability.
* Prepare detailed reports and documentation for design, testing, and operational procedures, ensuring adherence to industry standards and safety regulations.

*Desirable*

* Experience in the hydrogen and/or renewable energy sectors with a focus on process automation and control systems.
* Proficiency in industry-specific standards for process control and safety, including IEC 61131, IEC 62443, and familiarity with Process Safety Management (PSM) requirements, particularly relevant to chemical engineering.
* Expertise in conducting safety and risk assessments tailored to chemical process environments, such as HAZOP studies, SIL assessments and LOPA.
* Proficiency in programming PLC and SCADA systems including PLC/DCS, SCADA, and industrial communication protocols, Sequential Function Chart (SFC), Function Block Diagram (FBD), Structured Text (ST), Instruction List (IL), and Ladder Diagram (LD) tailored for chemical process applications.
* Proficient in utilising software tools for designing, simulating, and optimizing process control systems.
* Professional accreditation or active membership in recognised engineering institutions, with a preference for credentials in chemical or process engineering.

**Benefits:**

* Competitive salary
* 25 Days annual leave and 8 flexible bank holidays
* Private Medical Healthcare
* Cycle to work scheme
* Professional development opportunities and support
* Professional fees paid for by the company
* Company social events and team building days
* On-site parking with EV charging points available to staff

To apply please send a full CV and covering letter to jobs@greencatrenewables.co.uk .