

Job Title:	Senior Control Systems Engineer
Location:	Glasgow (requirement to visit other locations, including Customers sites.)
Responsible To:	Head of Engineering – Hydrogen and Clean Energy Division
Direct Reports:	
Review Date & Rev No	23 Jan 24 r2

Purpose of Job:	<p>The function of the Senior Control Engineer is to manage and support the engineering requirements for Hydrasun projects and is ultimately responsible for understanding and delivering technical solutions that accomplish the customer's goals while protecting and promoting the interests of Hydrasun in all matters.</p> <p>Responsible for ensuring of all project requirements are delivered, technically fit for purpose and in compliance with relevant legislations, standards, and industry guidelines. He / She is expected to be responsible for controls systems design aspects of the projects. This is a multi-disciplinary role suited for a person having the ability to carry out necessary engineering design / specifications, generating scope of requirements for packages and dealing vendor package suppliers.</p> <p>The selected candidate is expected to take an active role in Hydrasun's growing Energy Renewable (Hydrogen) sector.</p> <p>This role may require intermittent travel to project sites for occasional meetings and surveys. He / she must be organized, a multi-tasker and able to work effectively in a fast-paced environment.</p>
Key Areas of Responsibility:	<p>Technical Duties</p> <ul style="list-style-type: none"> • All engineering activities associated with controls systems, including instrument specifications, control logic, wiring, alarms and trips and knowledge of control systems both on DCS and SIS. • Remaining within design budget (man hours and materials) and other design targets of optimising final cost and schedule to assigned work scope. • Ensuring all items are designed, manufactured, assembled and commissioned and are fit for purpose. • Identify and supervise all technical resources needed to complete assigned work scope. Assign and co-ordinate scopes of work, review work done and ensure each resource stays within assigned schedule and cost targets. • All activities pertaining to the assigned work scope, as set by the Lead Engineer. This includes but is not limited to: conceptual design and layouts; design, fabrication and test activities; design packages/procedures preparation; approval of Scope of Work for 3rd Party Services; and approval of mobilisation plans and procedures. • Supervise and be responsible for activities assigned to 3rd Party contractors within assigned work scope. This includes, but is not limited to: prepare Scope of Work; issue ITT and participate in vendor selection process; arrange or perform site supervision when required; review and approval of deliverables; compliance with project targets; and full management of subcontracts. • Onsite activities, when required, relevant to assigned work scope under their responsibility as defined by the Lead Engineer / Project Manager. <p>✓ maintaining 'lessons learned'</p>

	<ul style="list-style-type: none"> ✓ Ensure that the Project Manager is provided with adequate schedule, equipment and cost information to enable correct and accurate preparation of project status for the task under their responsibility. • Ensuring all relevant information of subcontractors, equipment and tooling for the assigned work scope is given to the Lead Engineer, QHSE and Fabrication, Inspection & Mobilisation Departments to enable adequate Quality Control to be performed on them. • Ensure that Graduate / Project Engineers under their control are fully aware of the Company's safety objectives and that they are familiar with the HSE section of the Document Management System. • Initiating actions to prevent non-conforming condition or product. Initiating, recommending or providing solutions to non-conformances. Verifying the implementation of corrective action and ensuring that these have been effective and controlling further work until the deficiency or unsatisfactory condition has been corrected and the root cause resolved. • Review and be familiar with Engineering & Operation Department specifications, design drawing procedures and conform to the Company's Document Management System, the specific requirements of the Client and other governmental and/or statutory bodies. • To become familiar with and to maintain awareness of Hydrasun's current requirements and where applicable, the latest Industry Codes and Standards including statutory rules and regulations. • To ensure that all activities are carried out in a manner consistent with Hydrasun's policy on health, safety, quality and environmental matters in accordance with Hydrasun specific procedures. • To ensure his/ her own safety and that of others is not compromised or placed at risk.
Interfaces (Internal/External):	<ul style="list-style-type: none"> • QHSE Department, Engineering Department, Fabrication Workshop and onsite services. • Client, Client provided subcontractors, 3rd party Certifying Authority and subcontractors. • Liaise with Procurement, Logistics, Expediting and Stores to ensure all items are procured, delivered and shipped on time.

Qualifications:	<i>Essential</i>	<i>Desirable</i>
	<ul style="list-style-type: none"> • BEng degree in Control Systems Engineering or equivalent transferable qualification. • Achieved Chartered Status. 	<ul style="list-style-type: none"> • Extensive and demonstrable experience in oil and gas or other related chemical process or energy sectors.
Experience Required:	<i>Essential</i>	<i>Desirable</i>
	<ul style="list-style-type: none"> • Controls Systems Specifications. • Being able to develop control logic. • Identification, selection and programming controllers/PLCs • Ability to produce wiring diagrams. • Ability to produce cause and effect diagrams. • Experience in programming Allen Bradley, GE, Siemens etc PLCs. • Knowledge in overall plant control via HMI, DCS, SIS. • Knowledge in the application of international codes and standards (ISO/ISA, BS EN, API, etc). • Compiling project documentation. • Knowledge in F&G, ESD & PSD systems. 	<ul style="list-style-type: none"> • New Product Development. • Renewable / Hydrogen Industry. • Programming of HMI, SCADA etc.

	<ul style="list-style-type: none"> • Installation & commissioning of control systems. • Ability to produce wiring I/O wiring diagrams, I/O Lists, loop drawings, interface drawings, junction box & cable schedule, instrument hook-up drawings. 	
Skills/Training Competences/Abilities:	<ul style="list-style-type: none"> • Excellent attention to detail. • Ability to work effectively in a fast-paced environment with changing priorities. • Excellent written and verbal communication skills. • Good organisational and administration skills. • Ability to maintain a professional and focused approach at all times, in particular in customer facing situations. • Keen to develop personal knowledge and skills. 	<ul style="list-style-type: none"> • Knowledge of materials and processes used within the Hydrogen industry. • CAD capability.

Please note that you may be requested to undertake other duties from time to time and it is possible that your duties may change over time. You will be expected to co-operate with all reasonable requests. If the changes are deemed to be longer term then this job description will be revised.

Signature of Job Holder: _____ Date: _____

Name in Capitals ()

Signature of Manager: _____ Date: _____

Name in Capitals ()