

JOB DESCRIPTION

Electrical Field & Commissioning Engineer – Hydro



Date	February 2019
Work Area:	Hydro
Based at:	Scotland
Contract Term:	Permanent
Hours per week:	38h
Responsible to:	
Responsible for:	n/a
Pay Band and Scale:	Engineering / Project Management – Level 3 Salary Range Developing 22,924.00 - £27,222.25 / Competent £28,655.00 - £32,953.25
Job Purpose:	To specify, deliver and commission PLC and SCADA systems for hydroelectric schemes within financial and time budgets. To manage and / or carry out Operation and Maintenance on hydroelectric schemes. To respond to faults and problems occurring on hydro schemes with some out of hours support as part of a shared team responsibility.
Key Accountabilities:	<p>Line management & Departmental Administration:</p> <p>Active participation in team, department & company meetings as appropriate. Enter timesheet & Expense data.</p> <p>Specification:</p> <p>Scoping and capture of requirements based on customer needs, technical constraints, regulations and health and safety. Review of PLC code on existing schemes and/or analysis of shortcomings and identification of recommendations for improvements associated with performance, reliability, equipment lifetime and health and safety. Design of fit for purpose systems. Peer review other's designs. Prepare PLC code and SCADA/HMI displays to meet specification and good practice guidance. Plan the commissioning process including identification of prerequisites, responsibilities and scope of work for other trades. Prepare commissioning documentation including method statement/commissioning plan, risk assessment and commissioning report. Liaise with customers and contractors on site and before site attendance to make the necessary arrangements for site work Liaise with, and supervise, subcontractors on site.</p>

Engage, supervise or manage (depending on size of scheme) the installation and commissioning of the control system.
Lead the commissioning process onsite and complete commissioning report & documentation.
Carry out performance testing, analysis and reporting.

O&M:

On-call support for hydro schemes out of hours on a rota basis with the rest of the team.
On site and remote fault analysis and rectification of hydro schemes
Perform operation & maintenance inspection visits.
Train & support caretakers and subcontractor in trouble shooting and resolving issues to minimise downtime.
Train caretakers and subcontractors in routine maintenance activities
Support and assist with O&M management of sites.

HSQE:

Comply with Dulas H&S Policy.
Contribute to the ongoing improvement of health and safety across the department.
Prepare and review risk assessments and method statements.
Monitor and review health and safety performance of subcontractors and staff.
Plan and manage Health & Safety aspects of allocated projects / work
Ensure compliance with ISO/quality policy and procedures.
Proactively assess and review risk management during commissioning process to minimise likelihood of damage to plant or accidents.

Commercial & Strategic:

Prepare budgets & quotations for activities and equipment.
Monitor project costs & expenses with regards to work area, reporting deviations from budgets & forecasts.
Attendance at conferences and seminars as required.

Person Specification:

Essential Criteria

Skills, experience & qualifications	Extensive experience of PLC coding – Siemens preferred. Proven experience of commissioning and testing of control panels.
Team working	Experience of working in a multi-functional team.
Communication – written & verbal	Keen attention to detail to ensure accuracy and identification of errors.
Management – including self-motivation & time management	Good time management skills with the ability to prioritise multiple jobs. Ability to provide good customer service understanding clients requirements, both technically and financially.

IT & Other Willingness to travel and spend time away from home as necessary.
 Able to work flexibly/ outside of office hours when necessary.

Desirable Criteria

Skills, experience & qualifications Wide ranging commercial electrical experience with relevant electrical qualification.

Knowledge or experience of O&M of electro-mechanical plant to include fault finding skills.

Knowledge and understanding of the hydro industry.
 Construction site experience.

Experience of preparation of health and safety method statements and risk assessments.

Effective procurement skills to ensure value for money.

Experience of product innovation and the process of bringing products to market.

Team working

Communication – written & verbal

Management – including self-motivation & time management Experience of managing time, cost and quality in engineering projects within set budgets.

IT & Other Knowledge of CAD software.

Document History

Revision	Created/revised by	Checked by	Issue date
V1.3	RM	ML/ RT/ TA	28/04/2016
V 2.0 draft	DR	?	?