

JOB DESCRIPTION – Design Engineer

Job Title	Design Engineer
Date Reviewed	June 2021
Responsible To	Senior Design Engineer
Responsible For	Workshop Personnel
Location	Office Based

Business Profile

ECS was established nearly 15 years ago to meet the increasingly complex and growing demand for well-engineered control systems. In that time the company has built a first-class reputation for delivering practical and efficient solutions for their clients; from conception through design, build, installation and commissioning of projects, both in the UK and Europe, and into the APAC and South America regions. Thanks to our commitment to quality, the majority of our clients, including world-leading pharmaceuticals, international shipping (and the UK's leading critical power systems supplier) return for support time and time again.

Role summary

As a Design Engineer with ECS you will take total responsibility for the implementation of a Successful Project to ensure it is delivered on time, within budget and meets the customer specifications and expectations.

The Design Engineer will need to be customer focused, self-motivated, comfortable in liaising with customers, suppliers and sub-contractors and used to working within tight deadlines, managing numerous projects running concurrently varying in value.

Responsibilities

1	Development of engineering project documentation such as single line diagrams, system operating philosophy, schematic diagrams, bills of materials and test schedules including but not limited to SAT, FAT, and FDS
2	Responsibility for budget control, managing labour and material acquisition to ensure a successful project delivery to client
3	Responsible for correct selection and procurement of all components
4	To design, develop and commission machine control and safety systems
5	Responsible for creation of electrical documentation including circuit diagrams, cable schedules, installation documents and bills of materials
6	The commissioning of control systems, perform testing, carry out Factory Acceptance, and Site Acceptance testing
7	Responsible for ensuring that the control systems are to budget and within timescales
8	Responsible for writing & developing software, PLC & HMI coding for various automation projects
9	Ensure delivery of ECS projects on time and in accordance with the technical requirements of the contract
10	To be aware of the contractual requirements of all Projects, payment milestones and associated requirements, key dates, technical requirements for the scope of works, Health and Safety requirements

Person specification

Key skills and knowledge	Desired/Essential
At least 5 years relevant, on job experience within Controls Systems	Essential
PLC Hardware and peripherals (Rockwell/Mitsubishi/Schneider)	Essential
Experience of design and integration of PLC and SCADA based control system solutions	Essential
Experience of industrial Ethernet network	Desired
Experience within manufacturing/production environments	Desired
Strong knowledge of manufacturing systems and their integration with PLC software / hardware	Essential
Ability to use technical documentation including the ability to read and amend electrical drawings	Essential
Ability to work as part of a team and on your own initiative	Essential
Good written and verbal communication skills	Essential
Degree, HND, HNC in Electrical/Electronic Engineering or a related subject area or minimum 5 years' experience in similar role	Essential
Confidence, tenacity strong communication skills, logical thinking, organization skills and teamwork	Essential
Experience in Microsoft Office applications	Desired
Required to occasionally work unsociable hours, weekends, nights, or public holidays, as is required from time to time within the Projects department	Essential
Hold a full valid driving licence	Essential