

## Job Description

### Main purpose of Position

The Senior Electrical Engineer will be responsible for producing design studies and manufacturing design studies for NIS projects.

The engineer will work within a multi-discipline design team and be responsible for undertaking the design of equipment as delegated by the Principal Engineer or Engineering Manager.

Work will be undertaken individually or by managing a small team of designers reporting to the Senior Electrical Engineer.

### Specific Areas of Responsibility

- ✓ Produce design concepts.
- ✓ Carry out technical risk analysis on designs for EMC compliance and CE certification.
- ✓ Produce and maintain a technical file in accordance with NIS Quality Assurance.
- ✓ Produce designs that conform to the relevant British and European standards and client requirements.
- ✓ Ensure that the design addresses operability, maintainability and safety issues.
- ✓ Produce designs that meet with project programmes and budgets.
- ✓ Produce Design Justification Reports that demonstrate the design mitigates all technical risks identified.
- ✓ Produce a level of information (drawings, specifications, works instructions, etc) that enable manufacturing to take place.
- ✓ Check drawing details.
- ✓ Undertake design studies and produce reports on outcome while making recommendations.

### Reporting Relationships

**Reports to:** Principal Engineer

**Reportees:** Electrical Engineers & Electrical Detailers

### Standards

- ✓ Compliance with company procedures and policies.
- ✓ Display a professional, acceptable attitude and image for all work associated with and undertaken on behalf of NIS Ltd.

- ✓ Adhere to NIS core values - Respect, Protect, Commit, Inspire.

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Signed [TITLE]:

Date:

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Signed [LINE MANAGER]:

Date:

## Person Specification

Qualifications	Essential	Desirable
Relevant engineering degree		✓
Chartered Engineer		✓

Experience & Knowledge	Essential	Desirable
Minimum of 5 years engineering background	✓	
Broad based engineering experience in design manufacturing of electrical control systems	✓	
Design of electrical systems for gloveboxes	✓	
Machine safety directives	✓	
Low voltage control gear	✓	
Control systems	✓	
Instrumentation	✓	
Intimate knowledge of drawing principles and standards	✓	
Understanding of the requirements of the CE marking process	✓	
AutoCad	✓	
Nuclear engineering experience		✓
HAZOP/HAZID experience		✓

Skills & Abilities	Essential	Desirable
Production of technical reports and documents		✓
Risk assessment techniques		✓
Engineering substantiation		✓
Resource management and planning skills		✓
SIL rating and BS EN 61508		✓
Effective presentation skills		✓

Other	Essential	Desirable
Self-motivated	✓	
Ability to work to tight deadlines and under pressure	✓	
Full driving licence	✓	
SC clearance or ability to achieve	✓	
To work in accordance with NIS policies	✓	
Able to work away from home for short periods	✓	