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Warhead Analogue System Developer

List
To become a member of a team building capability in the design and development of control systems Warhead Electrical Systems (WES). This role has particular responsibility for the design, development and validation of analogue sub-systems, including providing support to other WES team members. This capability is required to assist the In-Service Support team, and would also be required in the event of any requirement for a successor

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Discipline Engineering - Electronic

Employment Basis Full Time

Location Aldermaston

Salary Range £20,800 to £34,040 dependent on experience

Job Reference 20/07/01/651934

Key accountabilities

- To develop programmes of work with industry/academia
- To develop control system analogue electronics from concept through to design, manufacture, verification and integration
- To provide the required level of capability in the area of Warhead Electrical Systems (WES), including development of relevant skills.
- Be part of the process to ensure that appropriate staff and facilities are available to meet the needs of our customer

Responsibilities

- Development of analogue electronic systems

- Requirements engineering
- System architectural design
- Interface management
- Detailed analogue electronic design
- Manufacture (including contract management)
- System verification (including radiation testing)
- Support integration of the CRE, WES, warhead and weapon system
- Identification and development of analogue technologies supporting safety, reliability and security
- Ensure that capability is developed and maintained, including understanding future technology trends and solutions and coaching other team members
- Ensure performance and development is actively managed to meet current and future business needs
- Maintain good understanding of company and local issues
- Assistance with programme development and execution
- Initiate and manage technical contracts
- Identify suitable industrial and academic partners to successfully deliver programmes
- Obtain understanding of future requirements
- Maintain and encourage outreach activities
- Engage in collaborative activities with US labs, UK industry and academia
- Promote business best practice (e.g. Assurance, IIP and partnership)
- Ensure understanding and apply responsibilities with regard to the company's Environment, Health, Safety, Security and Quality Standards

A handwritten box containing the text "CRE?". The box is drawn with a simple rectangular border and the text is written in a casual, slightly slanted font.

Qualifications

- Degree (or equivalent) in Electronic Engineering (or related) discipline
- Achieved or working towards Incorporated or Chartered Membership of an appropriate institute

Knowledge

- Commonly used circuit topologies
- Design techniques for: amplifiers; switching circuits; negative feedback control systems; power converters; tolerance of nuclear radiation; reliability, testability, maintainability; high integrity applications
- System management techniques
- Assurance procedures and processes

Experience

- Experience in the design and development of analogue systems for high integrity applications
- Experience of circuit modelling techniques

Skills

- Functional decomposition
- Circuit creation/synthesis
- Circuit analysis and design
- Prototype circuit construction
- Soldering and wiring
- Use of laboratory equipment
- Use of CAD/CAM tools
- Ability to understand engineering specifications, standards and WES requirements
- General management capabilities of self
- Interpersonal skills to communicate competently
- Good team working skills
- Clarity of verbal and written communications
- Presentation skills

Behaviours

- Professional commitment to continuous development
- Demonstrable commitment to AWE values
- Committed to Team Working
- Self motivated

Special Requirements

- Some overseas travel (mainly USA) may be required

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