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## Warhead Electrical System Digital Hardware Specialist

To be a member of a team involved in the design and development of Warhead Electrical Systems. To build capability in the area of Arming Fuzing and Firing systems and their integration into Warhead systems. This is required to provide capability for any possible future successor systems and assistance to the In Service Support teams. The role will concentrate on the application of commercial technologies to robust microprocessor systems

<b>Discipline</b>	Engineering - Systems Engineer
<b>Employment Basis</b>	Full Time
<b>Location</b>	Aldermaston
<b>Salary Range</b>	£30,000 - £40,000 dependent on experience
<b>Job Reference</b>	20/07/01/651800

### Key accountabilities

- Lead the hardware development of COTS based digital hardware systems to solve departmental problems and contribute to the down selection and underwriting of suitable technologies
- Provide technical leadership in the development of COTS based approaches within AWE and with external companies
- To assist in the execution of appropriate programmes to ensure that capability is developed and maintained
- Be part of the process to ensure that appropriate staff and facilities are available to meet the needs of our customer

### Responsibilities

- Lead the development of control systems using microprocessors and programmable hardware techniques using

- commercial high integrity approaches
- Maintenance and development of WES capability, in relevant technology areas, for Trident support and any possible future successor
- Identify high integrity commercial techniques
- Assess the applicability of identified technologies to WES problems
- Develop demonstration hardware
- Design informal software
- Provide advice on the application of standard commercial technologies
- Interact with industry to facilitate the development of high integrity techniques
- Ensure his/her 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
- Input and advise appropriately to programme studies
- Execute programme for development of Warhead Electrical Systems
- Obtain understanding of future requirements and technology trends/solutions
- Maintain and encourage outreach activities
- Engage in collaborative activities with US labs, UK industry and academia
- Promote Business best practice (e.g. IIP and partnership)
- Ensure understanding and apply responsibilities with regard to the Company's Environment, Health, Safety, Security and Quality Standards

### Qualifications

- Degree (or equivalent) in Electronics or other relevant discipline
- HND in Electronics or other relevant discipline with demonstrable experience in robust digital systems
- Achieved or working towards Chartered Membership of an appropriate Institute

### Knowledge

- Knowledge of microprocessor techniques and programmable technologies
- Knowledge of modelling techniques(UML, xUML or Formal Methods)
- Awareness of verification/validation of digital systems
- Assurance procedures and processes

### Experience

- Experience in the design and development of digital systems and in the application of Hardware Description Languages

### Skills

- Ability to understanding technical specifications and requirements of Warhead Electrical Systems
- General management capabilities of self
- Interpersonal skills to communicate competently
- Working in a multi-discipline team
- Clarity of verbal and written communications

**Behaviours**

- Professional commitment to continuous development
- Committed to Team Working
- Self motivated

**Special Requirements**

- Some travel, including occasional travel abroad (mainly USA)

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