

E&SD Warhead Electrical Systems Formal Methods Hardware Developer

To be involved in the design and development of Warhead Electrical Systems.

Discipline	Engineering - Systems Engineer
Employment Basis	Full Time
Location	Aldermaston
Salary Range	£21500.00 to £26000.00
Job Reference	27/06/01/651380

Key accountabilities

- To undertake research and development in support of Warhead Electrical Systems (WES), including development of relevant skills and professional standing.

Responsibilities

- Member of the Warhead Electrical System Development Team.
- Maintenance and develop Warhead Electrical Systems capability, in particular High integrity hardware (HIH) development with formal methods. Support requirements analysis and modelling of designs with formal methods, including liaison with customers. Develop and manage hardware control documentation. Perform code static code analysis and model checking of complex systems. Employ testing methodologies to undertake module verification and validation. Report findings at technical reviews.
- Assist in the development, procurement, testing and installation of appropriate software and hardware development tools and systems, including liaison with contractors, and evaluating the performance of tools, translators and compilers etc. Participate in contracts to support High Integrity programme.
- Design and develop in accordance with relevant standards and Customer QA requirements.
- Contribute towards safety case studies.
- Input to people development activities. Actively engage in professional development. Maintain good understanding of company and local issues. Ensure understanding the Company's Environment, Health, Safety, Security and Quality Standards and work in partnership. Maintain outreach activities. Engage in collaborative activities with US labs, UK industry and academia. Obtain an understanding of future requirements.

Who else is?

for WES / ARTF programming

Qualifications

- Achieved or working towards Chartered Membership of an appropriate Institute.
- Degree (or equivalent) Computing, Mathematics, Information Systems, Software Engineering, or Electronics (or related) discipline.

Knowledge

- Knowledge of software and hardware development tools, e.g. synthesis tools, place and route tools, compilers and test tools is essential. Software and hardware design approaches, including formal methods, configuration management and testing.
- Computer literate with an understanding of microprocessor systems architecture and sound working knowledge of DOS/windows/Linux is essential. Literate and numerate with

report writing skills and familiarity with Microsoft Office. Experience writing and presenting papers would be advantageous.

- Assurance procedures and processes.

Experience

- Some experience in the design and development of electronic or software systems highly desirable.

Skills

- Ability to understanding technical specifications and requirements of Warhead Electrical Systems.
- General management capabilities.
- Interpersonal skills to communicate competently.
- Clarity of verbal and written communications.

Behaviours

- Operating within the company's standards relating to Security, Quality, Environment, Safety and Health is essential for all roles at AWE.
- Professional commitment to continuous development.
- Committed to Team Working.

Special Requirements

- Discretion working with sensitive information
- Flexible approach to the work to be done.