

# E&SD Graduate Formal Methods Developer

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

---

<b>Discipline</b>	Science - <u>Mathematics Applied</u>
<b>Employment Basis</b>	Full Time
<b>Location</b>	Aldermaston
<b>Salary Range</b>	£19,000 to £23,000 dependent on experience
<b>Job Reference</b>	27/05/01/651031

---

## Key accountabilities

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

*WES/  
for AF&F  
→ programming*

## Responsibilities

- Maintenance and develop Warhead Electrical System (WES) capability, in particular High integrated software development with formal methods. Support requirements analysis and modelling of designs with formal methods, including liaison with customers.
- Develop and manage software 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.
- Engage in collaborative activities with US labs, UK industry and academia. Obtain an understanding of future requirements.

*integrity*

## 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 development tools, e.g. compilers and test tools is essential. Software 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 in writing and presenting papers would be advantageous.

## Experience

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

**Skills**

- Ability to understanding technical specifications.
- Interpersonal skills to communicate competently.
- Clarity of verbal and written communications.

**Behaviours**

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

**Special Requirements**

None

[Apply now on-line](#)

[Send to a friend](#)

