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Firing Unit Specialist

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To be a member of a small team concerned with the research and development of Firing Unit technologies, including the engineering and integration of these important warhead subsystems.

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Engineering - Electronic

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Full Time

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Aldermaston

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£20,000 - £30,000

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20/07/01/650786

Key accountabilities

- Conduct research and development into the technologies associated with Firing Unit subsystems, and the behaviour of these in aggressive military environments, such as shock, radiation, and temperature extremes. These include highly specialised components such as rapid discharge capacitors and triggered vacuum switches in addition to specialised low inductance circuits and high voltage generation techniques.
- Liaise with other warhead and electrical system departments, including integration teams. Assist the Firing Unit Technical Leader in defining and managing technical requirements and interfaces.
- Design the electronic aspects for specific Firing Unit requirements against agreed timescales. Progress designs through all aspects of engineering cycles, from requirements through prototypes and onto fully ruggedised & validated units.
- Assist the Firing Unit Technical Leader in managing partnerships external to AWE that may be necessary in furthering Firing Unit technologies. These will include collaborative programmes with US counterparts and UK academia, in addition to UK industrial contracts.
- Act as deputy to Technical Leader as and when required.

Responsibilities

- Ensure understanding and apply responsibilities with regard to the Company's Environment, Health, Safety, Security and Quality Standards.
- Act as deputy when required

Qualifications

- Achieved or working towards Chartered Membership of an appropriate Institute.
- Degree (or equivalent) in Electrical/Electronics, Physics with electronic bias, or related discipline.

Knowledge

- Knowledge across an appropriate Design Space.
- Assurance procedures and processes.

Experience

- Some experience in the design and development of electronic/electrical systems

Skills

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

Behaviours

- Professional commitment to continuous development.
- Demonstrable commitment to AWE values.
- Committed to working within a Team.

Special Requirements

- None