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| **Job Title:** | **Electrical Engineer** | **Job Holder:** |  |
| **Location:** | Barnstaple | **Grade:** | EN-CC |
| **Discipline Area:** | Electrical and Electronics | **Last Updated:** | 28 – July - 2025 |

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| **Job Purpose:** |
| As an SEA Electrical Engineer you will take responsibility for the electrical design and development of our products. The job holder will utilise state-of-the-art methods, technology and tools to explore all aspects of the development lifecycle, engineering analysis, requirements analysis, design, implementation, test, build and product support. The job holder will interface with customers (internal and external) on many factors within the design and liaise closely with Engineers from other disciplines, particularly Systems and Software Engineering. |
| **Responsibilities:** |
| * Design, analyse, and implement advanced electrical systems and components for defence applications, including sonar, communications, power distribution, and control systems. * Collaborate with multidisciplinary engineering teams to integrate electrical subsystems into larger defence platforms (e.g. ships, weapons systems, communications equipment), ensuring functional compatibility and performance. * Ensure all designs meet rigorous defence, safety, and electromagnetic compatibility (EMC) standards, including MIL-STD, DEF STAN, and other regulatory requirements. * Conduct testing, validation, and qualification of electrical systems under military operating conditions to verify reliability, durability, and mission-readiness. * Produce clear and detailed technical documentation including schematics, design reviews, test reports, and support for certification and audits. * Diagnose and resolve electrical system issues in both development and in-service equipment, providing engineering support throughout the product lifecycle, including upgrades and obsolescence management. |
| **Key Result Areas:** |
| The jobholder will be expected to: |
| * Experience in the design and manufacture of Electrical Systems. * Ability to follow a methodical/systematic approach to analyse and solve problems, identifying key facts and breaking down complex information to component parts. * Zuken E3 Cable knowledge desired but not essential. * Excellent communication and collaboration skills. * Demonstrable ability to plan and execute technical assignments. * Currently hold or be eligible and willing to obtain SC security clearance. * Able and willing to travel occasionally within the UK and Overseas as required. * Understand and implement the company environmental, health & safety policy by accepting individual responsibility and responsibility for those personnel under their authority, including others who may be affected by the company’s activities. * Ensure personnel are aware of their responsibility towards H&S and are equipped accordingly. * Always set a strong personal example regarding all health and safety matters. |
| **Values:**   * **Safety First –** We operate safely and responsibly, protecting each other and the environment. * **One SEA Team –** We are in this together. One team, working ethically, respectfully & professionally. We take responsibility and challenge each other constructively * **People Focussed –** We all contribute to making our culture one that is supportive and empowering; where everyone can grow and develop, feel valued and rewarded. We prioritise a healthy work-life balance * **Delivery Excellence –** We exceed our commitments by delivering timely, quality outputs whether that’s for each other or our clients and partners. We are always looking for ways to innovate and continuously improve * **Trusted Partners -** We partner strategically, collaboratively and always with integrity, whether that is between us inside SEA or externally |
| Training: (if applicable)  Internal training on Umbraco (Website and Intranet site) |
| Reporting Line  The jobholder will report to an EE Team Leader |
| Job Location  The job will be located in the Barnstaple Office |
| **Job Holder Declaration:**  I accept the purpose and key result areas of my role with SEA are as outlined above.  Signature:­­­­­­­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Line Manager Declaration:**  I confirm that the purpose and key result areas of this role are as outlined above have been agreed with me as line manager.  Signature:­­­­­­­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |