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| **Title** | **Systems Engineering – Systems Integration Engineer** |
| **Band** | **Individual Contributor – Professional** |
| **Grade** | **P3 - Intermediate** |
| Job Family |  |
| Reporting To | Doug Mitchell |
| Location | South Wales - Oakdale |

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| **Position Objective** |
| *This role is for an engineer who is part of a team responsible for system integration and test activity to support design certification, assurance and acceptance for the next version of an artillery fire control system.*  *Individuals in this role will carry out system integration with hardware & software components in a Tactical C4I System, define & execute test cases, and carry out problem solving to identify defects and provide assurance & acceptance evidence for the system.*  *Tasks will be varied and include product & system integration, verification, validation, assurance & platform based testing with problem investigation and support for field based testing. The successful candidate will work within a multi-disciplined engineering team to deliver outputs that meet customer needs to defined quality standards within agreed timescales and budgets* |

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| **Generic Level Description** | |
| General Accountabilities | Applies academic knowledge to job/role accountabilities; provides support on specific portions of larger projects/work assignments |
| Supervision Required or Provided to Others | Works under general supervision; begins to put forward ideas on how work assignments can be executed; receives detailed instructions on new projects or assignments. |
| Complexity | Works on problems of moderate scope where analysis of situations or data requires a review of a variety of factors. Exercises judgment within defined procedures and practices to determine appropriate action. |
| Knowledge and Technical Expertise | Developing professional expertise; applies company policies and procedures to resolve a variety of issues. Applies knowledge/skills to a variety of standard day to day activities. Deepens knowledge/skills in one area or broadens ability over a variety of skills. |
| Problem Solving | Identifies the problem and all relevant issues in straightforward situations; generates possible solutions, assesses each using standard procedures and makes a sound decision |
| Planning & Organizing | Prioritizes and organizes own work to deliver to agreed deadlines. |
| Project Management Accountabilities | Begins to manage projects; may be asked to review work delivered by external suppliers |
| Decision Making and Autonomy | Works independently on details of assignments, but has limited decision-making authority; most decisions made or guided by immediate supervisor |
| Client/Business Orientation | Becomes more self-directed in dealing with internal and external clients and responds to requests in non-standard situations, investigating all the facts. Understands the key business drivers; uses this knowledge to focus on own work. Works to control costs related to own work. |
| Communication, Negotiation and Influencing | Probes and listens carefully, presents information clearly and in appropriate style, makes technical information clear, persuades others in straightforward situations. |
| Leadership Requirements | Takes initiative in learning about the organization, and develops external contacts; actively seeks information and guidance to improve own performance; contributes as a team member, and takes responsibility for own work commitments |
| Key Contacts | Builds internal relationships with others outside of own work group or team particularly with internal customers; begins to interact with external contacts on own; begins to initiate information exchanges |

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| **Discipline Description** | |
| Responsibilities Include | * *Support the development of appropriate integration and test plans* * *Support detailed planning to successfully execute integration and test activity* * *Define test requirements, specifications, procedures and scripts with reference to system and product specification, design and use cases* * *Execute defined integration activities* * *Execute tests and manage test results and associated data* * *Support the production of test reports and associated test conclusions* * *Support status reporting of integration and test activities.* * *Support build and test automation activity as well as the continuous improvement of integration and testing processes, procedures and tools.* |

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| **Knowledge, Skills & Abilities** | |
| Required Skills & Abilities | * *Broad competence in Systems Integration and Test* * *Ability to carry out SI&T activity as part of a team* * *Understanding and experience of developing Tactical C4I Systems; knowledge of the BCIP system is highly desirable.* * *Understanding of tactical network infrastructures including networks, radios, routers, switches and system management considerations* * *Ability to orient issues within Internet and OSI-layered communications models - good understanding of messaging and routing protocols, TCP/IP, UDP, including those applicable to wireless and wired environments* * *Technical awareness of electrical, mechanical and computer systems hardware including knowledge of commercial IT architecture and technologies* * *Proven methodical analytic fault finding skills - comfortable working in a technical laboratory while adhering to lab rules e.g. safe handling, equipment tracking and ESD* * *Excellent written, verbal and interpersonal communication skills. Proficient in use of Microsoft applications, including Word, Excel and Visio.* * *Ability to generate well-structured technical documents and manage through a review process to achieve release to committed deadlines.* * *Ability to present formally at progress reviews and contribute productively in the team and with external UK MoD and other stakeholders.* |

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| **Education & Experience** | |
| Required Education & Experience | Technical experience in the application of practical and pragmatic Systems Integration and Test engineering on large scale Defence design and development programs  Practical hands on experience in lab and field based military systems testing including equipment/system commissioning and fault finding  Experience in build and test automation.  Experienced in the use of one or more the following engineering tools or equivalents: IBM DOORS, Rational Quality Manager, Rational Team Concert, Microsoft Office tools, Microfocus ALM  Typically requires degree in a relevant Engineering, Computer Science, Mathematics, Physics or IT discipline or equivalent wide range of relevant experience |