

Job Title: Senior Software Systems Engineer (Technology)

Role Purpose (position scope)

This Software Systems Engineer role is a position within the Draken Chief Technology Officer team, supporting a wide range of internal and customer system design work packages and projects. The role is explicitly a Systems Engineering position, with a strong emphasis on software intensive systems, open architecture approaches and the responsible application of emerging technologies, including Artificial Intelligence. The post holder will not act as a software developer but must have sufficient software knowledge and practical experience to define, manage, integrate and verify software enabled system capabilities.

The role would support requirements generation for software systems, and would be responsible for system architecture and design, software interface definition, system integration, system level test planning and execution, and assisting in elements of through life support for mission systems used within the business.

This is a technical, internal and external facing role requiring the capability to communicate complex system concepts effectively with stakeholders including internal Flight Operations, EW Operations, Part 21G, Part 21J and Part 145 organisations, and external suppliers. The Engineer will typically be part of an Integrated Delivery Team (IDT) and will contribute to the performance of the IDT to ensure that expectations for safety, quality, time and cost are met.

Line Manager	Dotted Line	Direct Reports	Dotted Line
Chief Engineer (Technology)	Deputy Chief Engineer (Technology)	None	None

Key Responsibilities

- Safety first. Operate in accordance with SHE standards and apply safe systems of work.
- Support requirements generation for software enabled mission systems.
- Support software systems design, integration, testing and through life support.
- Apply open architecture, modular design and interface definition principles.
- Engage with internal customers, operators, airworthiness organisations and external suppliers.
- Act as technical lead within an IDT for nominated software systems tasks/projects where appropriate.
- Produce technical documents including system descriptions, interface documents, test procedures and reports.
- Contribute to, and lead, internal, supplier and customer technical meetings where appropriate.
- Share software systems and mission systems knowledge to support staff competency.
- Fulfil tasks to agreed time, budget and quality requirements.
- Propose process and product improvements to support best practice and compliance.
- Apply engineering processes, lifecycle management and applicable regulatory requirements.
- Undertake occasional UK and overseas travel as required.
- Perform other reasonable duties within the capability of the incumbent.

Core Competencies

- Excellent communication, technical report writing and presentation skills.
- The ability to work within a large organisation in a matrix management structure.
- Team oriented with proven communication, change management and influencing skills.
- Ability to understand software systems, architectures and interfaces at system level without performing a software development role.
- Ability to act as the system level technical interface to external software engineering teams.
- Knowledgeable of engineering processes, practices and measures of performance and ability to make recommendations to drive their continuous improvement.
- Ability to build excellent relationships with team leads and peers across Draken.
- Attention to detail with high levels of accuracy.
- Self-motivated, confident and assertive.
- Managing of own time across multiple activities to meet relevant deadlines and timescales.

Experience

- Minimum of a degree, or equivalent experience, in an engineering, systems, software, electronics, physics or related technical discipline.
- Experience in a Systems Engineering role involving system design, integration, verification and validation, with exposure to requirements generation and management.
- Practical understanding of software systems, including software architecture concepts, software lifecycle activities, configuration control, integration constraints and verification evidence.
- Experience supporting the development of requirements and maintaining traceability between stakeholder needs, system requirements, design outputs and test evidence.
- Experience of developing and performing system level test procedures, analysing results and documenting verification outcomes.
- Understanding of open architecture principles, modular system design, interface definition and interoperability considerations.
- Experience of working with internal customers and external suppliers to define technical scope, manage dependencies and review technical evidence.
- Desirable: CEng, IEng, MEng or MSc qualification, or progress towards professional registration.
- Desirable: Understanding of the aerospace operating and regulatory environment, including Part 21G, Part 21J, Part 145, Part CAMO or equivalent military airworthiness arrangements.
- Desirable: Experience or knowledge of DO-178C or equivalent safety critical software assurance standards.
- Desirable: Knowledge or experience of RF, radar, communications or electronic warfare systems.

Key Measures

- Quarterly review of Objectives and Key Results
- Safety, Quality and Regulatory compliance of all activities.
- Customer satisfaction and organisational reputation.
- Compliance with all Draken Policies, Processes and Procedures and company ethics.
- Continuous improvement and change in line with best practice.