



POSITION DESCRIPTION

Position:	BCSS System Engineer
Reports To:	BCSS System Engineering Manager
Supervises:	Depending on size of project, may supervise other engineers.
Location:	Adelaide
Tenure:	Full Time
Conditions:	Normal company terms and conditions apply. Some interstate and overseas travel will be required.
Authority:	<i>Authority limits are defined in the Company Policies and Administrative Procedures (901AAT003).</i>

General Responsibility:	<p>The BCSS System Engineer is a member of the Defence Operations System Engineering functional team. The Defence Operations functional organisation undertakes a range of tasks on behalf of projects.</p> <p>Within that organisation, the System Engineering team provides a range of System Engineering skills in various operational and functional domains that can be drawn upon and shared between projects.</p> <p>Relative to other Saab defence projects, BCSS is a small project team that requires a System Engineer to oversee the specification and design of software intensive projects.</p> <p>These activities will be performed under the guidance and direction of the BCSS SEM and the applicable Saab Technical Authority to satisfy the safety, certification and design authority requirements of the company and the technical regulatory framework and consistent with defined line management engineering processes.</p>
--------------------------------	--

Specific Areas of Responsibility:	<p>Areas of responsibility will include:</p> <ul style="list-style-type: none">• Developing and maintaining requirements for BCSS, both system and sub-system level.• Developing and maintaining the architecture and design of BCSS.• Developing an awareness of Safety Engineering and supporting Safety Engineering activities.• Participation in Design Reviews, Working Groups and other forum to discuss system requirements and design, cognizant of the trade-offs between scope, schedule, and cost.• Participating in the development of estimates leading to quotations for new BCSS tasks.• Developing and maintaining knowledge on the operational use of BCSS.• Developing and maintaining knowledge of related System Engineering standards and best practices.• Developing and maintaining good working relationships with internal
--	--

stakeholders including Hardware and ILS team, Integration team and Software Development team.

- Providing input into the system design cost and schedule status and estimates.
- Assist in the definition of the Project Work Breakdown Structure and responsibility assignment.
- Identification and mitigation of technical risks.
- Ensure the project and product system baselines are maintained.
- Communicating with the customer and end user for technical matters as directed by the BCSS SEM or PM.
- Participate in the preparation and conduct of customer and internal technical reviews and audits.
- Documenting and presenting analysis results in support of project activities.
- Providing technical leadership and design guidance to the development team of a project.
- Support for the test and acceptance activities.
- Analysis and prioritisation of problem reports.
- When required, assisting the customer in identifying Engineering Change Proposals and Problem Reports to be implemented.
- Liaison with other projects within Defence Operations to minimise competing or conflicting priorities or objectives, and to maximise synergy.

Required Competencies:

- Understanding and application of Systems Engineering (SE) in Defence or complex systems.
- Application of “systems thinking” in both the project and business context.
- Elicitation and analysis of system stakeholder needs, both internal and external.
- Analysis and design of complex systems.
- Effectively and timely communication (both written and oral).
- Ability to plan, schedule, prioritise tasks to meet deadlines.
- Ability to perform tasks with minimal or no supervision.

Key Contacts

- *Internal* – BCSS System Engineering Manager, BCSS Project Manager, Group Technical Authority, Design Approval Engineers, and HW, Test, Software Development, Integration and Support teams.
- *External* – Land 75 Project Offices representatives, end users and other stakeholders as required.

Qualifications and Experience:

Essential

- Tertiary qualifications in Computer Systems Engineering, Computer Science or related technical discipline.
- At least five years relevant experience.
- Experience in systems engineering/design processes and practices.
- Experience with participating in Design Reviews and Working Groups to identify user needs and requirements and to manage the differing views of stakeholders from diverse organisations.
- Proven ability in internal and external customer liaison.
- Demonstrated ability to apply sound systems engineering principles to create balanced system solutions.
- Demonstrated ability to work in a team environment and to foster cooperation within and between teams.
- Experience in the use of configuration management systems.
- Experience in the Defence Industry.
- Demonstrated awareness and ability to address whole of system requirements and design issues, including safety and ILS;
- Demonstrated ability in internal customer liaison;

Desirable

- Knowledge of BCSS System architecture.
 - Knowledge of the deployment of BCSS in the Australian Army and the needs of the land domain.
 - Knowledge of VMF.
 - Knowledge of System Safety requirements and methods.
 - Experience in developing and improving processes, procedures and work instructions.
 - Experience developing to military or industry standards such as EIA-632 or MIL-STD-498 or equivalent.
 - Experience in producing and reviewing technical documentation.
 - Experience working within Quality Management Systems.
 - Demonstrated ability in external customer liaison;
 - Demonstrated knowledge and ability to communicate system engineering process and system development lifecycles;
-

Personal Qualities:

- Team player, with a demonstrated ability to work with others in a team environment, including sharing knowledge and experiences.
 - Responsible, with a demonstrated ability to accept responsibility and deliver outcomes in keeping with the level of authority
 - Adaptable, with a demonstrated ability to adapt to new tasks, technologies, processes and procedures.
 - Creative, with a demonstrated problem solving skills and the ability to develop creative and innovative alternative solutions.
 - Diligent, with clear appreciation of the need for accuracy, attention to details and timeliness in completing tasks.
 - Balanced, with an ability to work under pressure when required balancing performance and well being.
 - Customer focused, recognising and appreciating the needs of the end user.
 - Personal behaviours which reflect company values of:
 - People - as individuals & as part of a team.
 - Partnership - mutually beneficial aims & objectives
 - Innovation - seeking new solutions & ways of doing business
 - Dependability - delivering what we agreed.
 - Integrity - maintaining business ethics that are beyond reproach
 - Performance - adding value for our customers & our company
 - Product & services excellence - delivering customised solutions; advanced products; superior services.
-

Note: *To comply with Defence Industry security requirements, candidates for the position must be Australian citizens or able to meet citizen eligibility requirements.*