

Position Description

All candidates for this position must be Australian citizens or able to meet eligibility criteria. Defence Department security requirements will apply. General conditions of employment are documented in the People Management Manual (000AAL011)

Position Title (in full)	Software Engineer – Modelling & Analysis		
Division (Corporate, Operations or Security)	Operations		
Line report	JHBO	Direct report	MXWI
Location	Adelaide	Supervises	Not Applicable
Budget	Not applicable	Tenure	Full-time
Delegations /Authorities	Authority limits and descriptions available in Delegation of Authority (000AAF206)		

Purpose

Provide software engineering support to Modelling and Analysis activities.

Key Responsibilities/Duties

As a member of the Defence Operations Australia (DOAU) division Modelling & Analysis team participate in assigned tasks including:

- Undertake packages of work within existing Company projects;
- Contribute to internal research and development tasks;
- Conduct demonstrations and presentations; and
- Support the DSTO-Saab Strategic Alliance through participation in Interactive Project Agreements and contracted work.

Specifically:

- Perform software design, development, documentation and testing tasks, under direction;
- Perform peer technical reviews;
- Contribute to improvements in the software engineering processes for the M&A development environment.
- Comply with legislation and Company policies, processes and instructions, including those relating to non-discrimination, safety and duty of care and the quality management system; and
- Perform other duties as assigned.

Qualifications/experience

Essential
<ul style="list-style-type: none"> • Formal qualifications (University Bachelor Degree minimum) in Mathematics/Physics/Computer Science/Engineering or equivalent; • Demonstrated software engineering skills; • Understanding of the lifecycles of small to medium sized software defence projects and appreciation of associated disciplines; • Experience working within a team environment; • Understanding of software Configuration Management and Quality principles; and • Defence Security Clearance (Secret, AUSTEO), or ability to obtain such a clearance.

Desirable

- Defence industry experience;
- Experience in Modelling and Simulation (M&S) processes, architectures, methods and tools;
- Experience in the design, development or analysis of naval combat systems;
- Experience in visualisation techniques, including 2D and 3D graphics;
- Experience in the development of distributed applications, particularly simulations;
- Experience with Visual C++, Java, Matlab, Ada;
- Experience developing on a Windows platform;
- Familiarity with Rational ClearCase;
- Strong mathematical modelling/algorithm capability particularly in one or more of the following areas: statistics, operations research, tracking & data fusion; and
- Experience dealing with customers and end-users.

Skills

- Software Engineering
- Modelling and Analysis

Competencies

- Engineering Level 4-5

Personal attributes

- Capable of generating innovative technical solutions to real world problems;
- Ability to work in a team environment and prepared to share knowledge and experiences;
- Ability to adapt to new tasks, technologies, processes and procedures;
- Good communication skills (both written and verbal);
- Ability to plan, schedule, prioritise tasks and to meet deadlines;
- Ability to work under pressure; and
- Display behaviours that reflect company values.