POSITION DESCRIPTION

Position Title:	**Combat Management System Simulation Researcher**
Position Reference Number:	ECRWCSD005
Division	Weapons and Combat Systems Division
Position Classification:	S&T4
Position Location:	Edinburgh (SA)
Security Level:	NV1
Minimum Academic Qualification:	PhD
Enquiries:	anthony.cramp@dst.defence.gov.au

Academic Disciplines

Aerospace/ Aeronautical Engineering, Naval Architecture	Chemical, Radiological, Biological, Food sciences	Materials Science
Computer Sciences, IT, Software Engineering, Telecommunications	**Mathematics and physics**	Psychology and Social Sciences
Mechanical and Mechatronic Engineering (including robotics)	Electronic/ Electrical Engineering	Other

Position Overview

The Combat Management System Simulation Researcher will work as part of a team responsible for the research and development of adaptable, scalable, and resilient virtual simulation systems and high performance, deterministic constructive simulation systems. These systems will be used to support in-the-lab virtual experiments in the use of simulation as a future state predictor of military scenarios.

Position Duties

Under limited direction, as part of a team, the Combat Management System Simulation Researcher will:

1. Investigate modern distributed system, including cloud, tools and technologies for application to the creation of distributed simulation frameworks
2. Research and develop novel distributed simulation frameworks for the purpose of realtime human-in-the-loop experiments
3. Investigate, and maintain currency with, the state of the art of high performance constructive simulation tools and techniques
4. Research and develop constructive simulation tools for execution on Defence's planned High Performance Computing capability
5. Research integration of constructive simulations, as future state predictors, into the virtual simulation environments
6. Participate in the ongoing learning and application of best practice in software engineering

Other Requirements

This position may require some travel.

Appointees will require a **Negative Vetting 1 (NV1) Security Clearance**.