



# POSITION DESCRIPTION

<b>Position Title:</b>	Systems Integration Scientist
<b>Position Reference Number:</b>	PDWCSD003
<b>Division</b>	WCSD
<b>Position Classification:</b>	S&T 3 – 4 Above
<b>Position Location:</b>	Edinburgh (SA)
<b>Security Level:</b>	Neg Vet 1
<b>Minimum Academic Qualification:</b>	PhD
<b>Enquiries:</b>	Dr Tim Priest, 08 7389 1689

## 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

Defence Science and Technology Group are seeking a highly motivated individual to conduct applied research and development into time-critical systems integration, with particular emphasis on integration at the network edge. The technical domain includes elements of programming, systems development, distributed information management, adaptive software systems, software code instrumentation, and systems interoperability. System integration requires a good understanding of the components comprising the architecture under development. Consequently, the ideal applicant would demonstrate problem-solving skills, creativity and interest in expanding her/his knowledge base.

## Position Duties

Under guidance, the Systems Integration Scientist will:

1. Develop techniques and software frameworks/artefacts to analyse the quality characteristics of existing information systems.
2. Develop solutions for software instrumentation using technologies such as intelligent agents, artificial intelligence and machine learning.
3. Investigate and develop new concept demonstrators and software technology elements relevant to systems modelling.
4. Develop solutions to analyse systems-of-systems configurations.
5. Prepare to scientific publication-standard, papers discussing the work undertaken.

## Other Requirements

Appointees will be initially be engaged on a **BASELINE** security clearance with an upgrade to a **Negative Vetting 1 (NV1) Security Clearance** required upon commencement.