



# POSITION DESCRIPTION

<b>Position Title:</b>	<b>Radar Signal Processing Research Scientist</b>
<b>Position Reference Number:</b>	PDNSID005
<b>Division</b>	NSID
<b>Position Classification:</b>	S&T 3-4 above
<b>Position Location:</b>	Edinburgh (SA)
<b>Security Level:</b>	NV1
<b>Minimum Academic Qualification:</b>	PhD
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## 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 Radar Signal Processing Research Scientist will work in a small team developing signal processing techniques, implementing them in radar test beds, and testing them in real-world environments. The work will contribute to the system performance and survivability of active and passive radar systems in complex signal environments.

## Position Duties

Under guidance, the Radar Signal Processing Research Scientist will:

1. Develop novel signal processing techniques for radar in areas including electronic protection and beam forming.
2. As part of a team, implement signal processing algorithms in C++, CUDA and MATLAB for execution both in radar testbed hardware and simulations.
3. Develop software in a team environment using agile processes.
4. Undertake field trials of radar systems, process results and document outcomes for military clients.
5. Work collaboratively with team members from DST, industry and academia to progress research in radar signal processing.

## Other Requirements

Security Clearance – NV1

Infrequent interstate travel will be required. Overseas travel may be required. Participation in field trials within Australia is a requirement of the position.