



# POSITION DESCRIPTION

<b>Position Title:</b>	<b>Radar Systems Analyst</b>
<b>Position Reference Number:</b>	PDJOAD008
<b>Division</b>	JOAD
<b>Position Classification:</b>	S&T4
<b>Position Location:</b>	Fishermans Bend (Vic)
<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 Systems Analyst will work in a team to conduct research into novel ways to represent modern radar systems in computer models of air combat and surveillance. These models are used to develop new tactics and assess the warfighting impact of major system upgrades for Australia’s new fleet of military aircraft.

## Position Duties

Under guidance, the Radar Systems Analyst will:

1. Conduct research and development into methods suitable for modelling of airborne radar and electronic warfare systems performance.
2. Develop mathematical models of air combat and surveillance radar and electronic warfare systems.
3. Develop an understanding of military air operations, including tactics and the performance of aircraft, sensors and weapons.
4. Contribute to operations research studies into maximising the tactical and operational employment of air systems in complex threat environments.
5. Provide timely reports for clients and DST leadership on relevant research areas.

## Other Requirements

This position will involve travel to engage with military and scientific partners, and to attend scientific conferences. It may also involve observation of Australian Defence Force Air Warfare training and exercises.