

AD001 Postdoc: Aircraft Health & Sustainment

Location: Fishermans Bend, Victoria

Overview:

As member of DST's Aerospace Division, you will analyse the lifecycle costs and benefits of current and future Defence Air Domain capabilities. Taking a systems-level view of aeronautical capabilities and costs, you will identify best value propositions for future investment. You will contribute to the rigorous evaluation process by critically analysing complex or new future operating concepts against cost and sustainment metrics and developing new methods and tools. This will support contestability before the zero-pass stage of the new Defence Capability Life Cycle process, as called for in the First Principles Review. You should have a focus or interest in the Air Domain and are expected to develop understanding of the culture and strengths of the RAAF and the wider ADF.

Academic Requirement:

An PhD in one of the following areas:

- Mathematics
- Systems Engineering
- Informatics/Computer Science
- Service Science
- Decision Systems/Sciences

Other related academic areas:

- Economics/Econometrics
- Business Analysis
- Logistics and Supply Chain

Other Role Specific Requirements:

Demonstrated abilities in more than one of the following:

- Capacity to deal with high levels of ambiguity and uncertainty
- Structuring of wicked problems
- Analysis of complex interacting systems
- Collaboration on multi-disciplinary problems
- Modelling and simulation of complex socio-technical issues
- Analysis and synthesis to support strategic decision making

Notes:

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

Written Application Position Specific Question (400 words max)

How could you use your knowledge, skills and tools to inform a strategic decision-maker on the question: "Should Australia acquire and operate a fleet of Unmanned Combat Air Vehicles?"