



POSITION DESCRIPTION

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| Position Title: | Automation Architectures Researcher |
| Position Reference Number: | ECRNSID011b |
| Division | National Security and Intelligence Surveillance & Reconnaissance Division |
| Position Classification: | S&T3-4 |
| Position Location: | Edinburgh (SA) |
| Security Level: | NV1 |
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Academic Disciplines

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|---|---|--------------------------------|
| 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 Information Architectures group is seeking an enthusiastic and motivated individual to join the team to undertake leading edge research in information architectures. This work will enable machine learning and artificial intelligence techniques to be intelligently applied across the holistic future Defence information environment. The outcomes of this work will contribute towards enhancing Defence information and decision superiority by informing and influencing the requirements for future capabilities.

Position Duties

Under guidance, the Automation Architectures Researcher will:

1. Research and evolve information architectural concepts and constructs that enable machine learning/artificial intelligence to be applied across the Defence information environment.
2. Collaborate with a team to incorporate the enabling architectural patterns into the broader information enterprise reference architecture.
3. Implement prototype software within an agile team environment to validate the research outcomes.
4. Participate as part of a larger team in field trials to demonstrate the research outcomes, utility and impact to Defence stakeholders and partners.
5. Prepare to scientific publication standard, papers discussing the work undertaken.

Other Requirements

There will be some travel and trial activities associated with this role.