



POSITION DESCRIPTION

Position Title:	Ground Robotics Prototyping and Integration Researcher
Position Reference Number:	PDL007-009
Division	Land Division
Position Classification:	S&T 3-4 Above
Position Location:	Edinburgh, SA
Security Level:	Neg. Vet 1
Enquiries:	Mr Stephen Baker Stephen.baker@dst.defence.gov.au Ph 08 7389 6368

Academic Disciplines

<input type="checkbox"/> Aerospace/ Aeronautical Engineering, Naval Architecture	<input type="checkbox"/> Chemical, Radiological, Biological, Food sciences	<input type="checkbox"/> Materials Science
<input checked="" type="checkbox"/> Computer Sciences, IT, Software Engineering, Robotics	<input checked="" type="checkbox"/> Mathematics and physics	<input type="checkbox"/> Psychology and Social Sciences
<input type="checkbox"/> Mechanical and Mechatronic Engineering (including robotics)	<input checked="" type="checkbox"/> Electronic/ Electrical Engineering	<input type="checkbox"/> Other

Position Overview

The Ground Robotics Prototyping and Integration Researcher will work as part of a research team to undertake rapid ground robotics prototyping and integration. The purpose is to demonstrate advanced ground robotics concepts and their utility in military logistics as well as other applications. As the successful applicant, you will work within the Land Logistics Group of Land Division to support the Australian Army in designing a future force that integrates robotics and autonomous systems. Working alongside the Australian Army, academic and industry partners, you will employ modelling and simulation, prototyping, scale model representations of future operations, and trials with prototype ground robotic systems.

Position Duties

- Under limited direction provide applied research outcomes in the application of ground robotics to future military operations.
- Given a statement of research objectives, plan and carry out research tasks in the area of ground robotics prototyping and integration, exercising appropriate initiative and judgement.
- Work in a multi-disciplinary team to design, develop and evaluate concept demonstrators by employing modelling and simulation, prototyping, scale model representations of future operations, and trials with prototype ground robots. This will include liaising with Defence stakeholders, industry, academia, and coalition defence partners.
- Demonstrated experience with robotic platform (ground, air, sea) prototyping and integration.
- Evidence of applying your creativity to designing innovative solutions.
- Readily able to embrace a range of perspectives in solving problems, such as through having a multi-disciplinary academic/research background.
- Effective interpersonal skills and capacity to work in a multi-disciplinary team environment.
- Ability to analyse, report, present and publish research results to stakeholders and the broader scientific community.
- A demonstrated level of self-motivation and self-direction.
- An ability to structure work and achieve goals in an applied research environment.
- Demonstrated ability to undertake applied research in the area of technology prototyping and integration.

Other Requirements

Successful candidate will start on Baseline Security Clearance and will be required to obtain Neg Vet 1 after commencement.