Position Title:	S&T4 Human Performance Researcher
Position Reference Number:	PDLD001
Division	Land Division
Position Classification:	S&T Level 3-4 Above
Position Location:	DST Fishermans Bend, Victoria
Security Level:	Neg Vet 1
Minimum Academic Qualification:	PhD in a relevant field from a recognised University or equivalent .
Enquiries:	Dr Mark Patterson, mark.patterson@defence.gov.au (03) 9626 8472

Academic Disciplines

	Aerospace/ Aeronautical Engineering, Naval Architecture		Chemical, Radiological, Biological,		Materials Science
	Computer Sciences, IT, Software Engineering, Telecommunications		Mathematics and physics	■	Psychology and Social Sciences, Food sciences
	Mechanical and Mechatronic Engineering (including robotics)		Electronic/ Electrical Engineering		Other

Position Overview

The Human Performance Researcher will be part of a team that provides support to the maximising the physical performance of the warfighter. Under limited direction, the position will be responsible to undertake complex human performance research activities in the physiology/biomechanics domains in partnership with military stakeholders to support improved human-system performance. It is expected that partnerships with international Defence researchers, academic researchers and industry will be required to sufficiently address the research requirements. Activities will include:

- defining the physical work requirements of Defence occupations, and development of physical employment assessments.
- assessing the longer-term physical effects of serving in Army across a variety of employment categories.
- examining the efficacy of physical assistive devices to enhance soldier performance, and work with developers to refine and maximise the benefits of systems.
- investigating soldier monitoring systems that can potentially modify activities in real-time to prevent injuries and/or maintain physical capabilities, and regulate physical training loads over prolonged periods.

Position Duties

Under guidance, the Human Performance Researcher will:

- Develop and lead research programs that will have significant positive impacts on the future soldier & their combat system capabilities.
- Identify important emerging research requirements that will have significant impact on the future soldier capabilities.
- Progress the research outcomes to solutions that meet the military stakeholder requirements and report the solutions.
- Work in multidisciplinary teams with other human scientists, non-human scientists and engineers to maximise the human system performance.
- Liaise with Industry and academic partners as required to deliver the best quality research with the highest impact for the end user in timeframes that enable informed decisions to be made.
- Ensure that International Defence Science partner information is incorporated where relevant and maximize areas of strategic synergy to enable burden sharing between nations.

Other Requirements

- Appointees will be initially be engaged on a **BASELINE** security clearance with an upgrade to a **Negative Vetting 1 (NV1) Security Clearance** required upon commencement.
- The position will require interstate travel which will include trials in the field environment.
- Demonstrated technical expertise in Human Sciences and in particular Physiology and/or Biomechanics.
- Demonstrated capacity to develop research programs; liaise with stakeholders; clearly communicate and collaborate.