



POSITION DESCRIPTION

Position Title:	Biological Scientist
Position Reference Number:	ECRLD004
Division	Land Division
Position Classification:	S&T 3-4 Above
Position Location:	Fishermans Bend, Victoria
Security Level:	Negative Vetting 1
Minimum Academic Qualification:	PhD (microbiology, immunology, physics or related science)
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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 Biological Scientist will investigate, develop and evaluate novel DNA – based detection and identification platforms. The rapid evolution of DNA – based detection and identification methodologies, especially in the last two decades, has revolutionized the development of DNA sequencers. They have become more accurate, cheaper, more portable and significantly more cost effective. The development and evaluation of novel DNA sequencing methodologies and technologies with regard to concept of use is critical for effective use by stakeholders. The Biological Scientist will contribute to research program undertaking these investigations.

The work program will be enhanced through collaboration with external agencies, including universities. The Biological Scientist will be responsible for reporting on their biological research within the Chemical Biological Defence Major Science & Technology Capability within DST Group. The role requires expertise in molecular biology and demonstrable instrumentalist skills.

Position Duties

Under guidance, the Biological Scientist will:

- Utilize expertise in molecular biology to develop and evaluate DNA – based detection and identification methodologies for use by stakeholders.
- Demonstrate ability to operate of DNA detection and identification instrumentation using a range of methodologies to evaluate the instruments.
- Demonstrate interpersonal skills to develop and maintain collaborative research projects with external partners.
- Transfer scientific knowledge and communicate microbiological processes and experimental results to stakeholders.

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.

PhD (microbiology, immunology, physics or related science) and experience in the development and/or application of DNA sequencing equipment.

Demonstrable expertise in data analysis and/or statistics would be advantageous.