



<b>Position Title:</b>	<b>Bacteriologist</b>
<b>Position Reference Number:</b>	ECRLD006b
<b>Division</b>	Land Division
<b>Position Classification:</b>	S&T3-4 (APS4/5-6)
<b>Position Location:</b>	Fishermans Bend, Melbourne
<b>Security Level:</b>	Neg Vet 1
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## Academic Disciplines

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 scientist will be involved in the identification and characterisation of pathogenic microorganisms, and as such will need to be experienced at handling pathogenic bacteria at physical containment 2 or 3. They will be part of a multiple programs looking at identification, analysis, growth requirements, hazard assessment and medical countermeasures to bacterial pathogens, including traditional biological warfare agents. Our clients continue to identify the need for biological detection/diagnostic assays and platforms. The current range of technologies being utilised for microbial detection/diagnosis, including but not limited to, high-throughput sequencing and real-time DNA amplification technologies, need to be examined and evaluated with the aim of providing clients with the most portable, rapid, reliable and reproducible assays/platforms available. The successful applicant will be expected to use their bacteriological skills to input into these work programs. Additional skills in virology, molecular biology and bioinformatics will greatly enhance the work programs and provide useable technologies to the clients.

## Position Duties

- Isolation, culture and characterisation of Risk Group 2 and 3 bacterial pathogens. Demonstrable experience of working in a PC3 laboratory is highly desirable.
- Use of culture media, phenotypical and biochemical analysis and microscopy techniques to characterise, identify and assess microorganisms. Exploitation of immunological and molecular assays for the detection and diagnosis of bacterial pathogens. This will include demonstrable experience in using two or more different techniques, eg ELISAs, DNA sequencing, PCR-based assays, DNA hybridisation, microarrays and mass spectrometry to identify pathogenic microorganisms.
- Presentation of research/analysis findings to subject matter experts and non-scientific audiences.
- A minimum demonstrable experience of >2 years post-graduate experience with handling bacterial pathogens is required to fulfil this role.

## Other Requirements

- University degree with Honours, Masters or PhD in Microbiology or related discipline.
- The successful applicant may be requested to undertake trials, provide training or attend meetings / conference interstate or overseas.
- The successful applicant will be appointed on Baseline Security Clearance with the requirement to obtain an NV1 security clearance after commencement.