



## Role Description

### Science Officer – Radiation Measurement

<b>Position number:</b>	13082
<b>Classification:</b>	APS 6
<b>Date of approval:</b>	23 November 2017
<b>Location:</b>	Yallambie, VIC
<b>Branch/Office:</b>	Radiation Health Services
<b>Section:</b>	Monitoring and Emergency Response
<b>Immediate supervisor:</b>	EL 1 – PN 13206
<b>Supervisory responsibilities:</b>	No
<b>Restrictions:</b>	Security clearance
<b>Agency website</b>	<a href="http://www.arpansa.gov.au">www.arpansa.gov.au</a>

#### Agency overview

The Australian Radiation Protection and Nuclear Safety Agency (ARPANSA) is the Australian Government's primary authority on radiation protection and nuclear safety. Our purpose is to protect the Australian people and the environment from the harmful effects of radiation, through understanding risks, best practice regulation, research, policy, services, partnerships and engaging with the community.

#### Section overview

The Monitoring and Emergency Response Section is responsible for ARPANSA's laboratories, field measurement capabilities and networks that are required for the measurement of radiation in people and the environment. This includes maintenance of ARPANSA's radiation emergency response capabilities and networks and laboratories under contracts with the Comprehensive Nuclear-Test-Ban Treaty Organisation.

#### Primary purpose of the role

In this role, you will work under limited direction and perform a range of complex scientific tasks associated with the operation and maintenance of laboratory and field radiation measurement systems, particularly those associated with the measurement of radon. You will form part of a small team of scientific and technical-based staff engaged in the measurement of radioactivity in environmental samples and the radiological surveillance of the Australian environment. You will assist with related tasks including the implementation of relevant quality assurance programs, maintenance of records, preparation of technical reports and research activities. Performing a range of scientific tasks, the role requires you to provide assistance to ARPANSA in reporting and advising on sources of radioactivity.

## Key accountabilities

- Under limited direction and using standard techniques and methods, undertake a range of complex tasks associated with the provision of professional scientific support for the development and maintenance of ARPANSA's radiation measurement systems.
- Calibrate, maintain and develop systems to support ARPANSA's radon measurement capability.
- Provide scientific support and supervision in a small team of scientific and technical staff involved in the measurement of radionuclides in environmental samples and the development of analytical techniques.
- Undertake suitable duties in support of the Section's programs and projects, in the laboratory or the field, including roles defined in ARPANSA's Incident Management Plan.

## Job specific capabilities

A tertiary degree in a branch of the physical sciences from an Australian educational institution or a comparable overseas qualification or other qualifications and/or experience, which are appropriate to the duties of the position.

Sound knowledge and experience of gamma-ray spectrometry and laboratory quality systems are essential.

You must hold Australian citizenship or possess permanent residency status leading to citizenship and be prepared to travel interstate from time to time as required. ARPANSA requires all new employees to undertake a baseline security clearance as a condition of engagement.

## Selection criteria

There are five selection criteria for this role. Candidates are asked to limit their response to no more than 500 words per selection criteria.

1. Practical knowledge of the techniques, procedures and instrumentation for the measurement of radionuclides in environmental samples.
2. Demonstrated ability to carry out scientific procedures and analyses in an organised and systematic manner, employing professional judgement
3. Demonstrated ability to apply initiative in adapting or developing experimental methods, under limited direction, to resolve moderately complex problems
4. Demonstrated well developed oral and written communication skills including maintenance of technical documentation
5. Demonstrated ability to work collaboratively and build and sustain relationships with team members, counterparts in comparable organisations and clients