



POSITION DESCRIPTION

Position Title:	Senior Nuclear Forensic Scientist
Cluster / Business Unit / Division	NOSS – Nuclear Stewardship
Section or Unit:	Nuclear Forensics
Classification:	Band 5
Job Family:	Science
Position Description Number:	PD-2590
Work Contract Type:	Technical
STEMM/NON-STEMM:	STEMM
STEMM CATEGORY:	Science

POSITION PURPOSE

The primary objective of the Senior Nuclear Forensics Scientist is to develop and operate specific Nuclear Forensics capabilities, through the provision of a range of services (such as knowledge products, capability development and analytical support) in Nuclear Forensics to ANSTO's nuclear security clients.

ORGANISATIONAL ENVIRONMENT

ANSTO is a leading global nuclear science and technology organisation delivering world class research and expertise to benefit Australia and support a more sustainable future. Using nuclear science, we improve health, support industries, provide expert advice to government on nuclear technologies and help develop Australia's nuclear workforce.

Nuclear Stewardship maintains national capabilities that support industry, government and scientific users. Capabilities include radionuclide metrology, ionising radiation detection and measurement, radioanalytical chemistry, nuclear forensics and environmental monitoring.

The Nuclear Forensics capability area operates Australia's designated nuclear forensics laboratory and works in close cooperation and collaboration with internal and external stakeholders domestically and internationally. Nuclear Forensics has a high profile in international engagement and outreach to strengthen global nuclear security and provides trusted advice and specialised services in support of needs of the Australian Government.

ACCOUNTABILITIES & RESPONSIBILITIES

Key Accountabilities

- Undertake the technical delivery on Nuclear Forensics projects and capability requirements through the utilisation of knowledge, skills and experience in chemistry, radiochemistry, nuclear science and/or forensic science.
- Perform applied research in national security and nuclear forensics science.
- Undertake analysis, interpretation and client reporting in a forensic science context, relevant to client specified requirements.
- Propose and implement new capabilities, develop work plans and complete activities within the strategic research directions of Nuclear Forensics.
- Apply forensic science discipline knowledge to ensure that the processes and practices within Nuclear Forensics are consistent with relevant national guidelines on forensic science.
- Undertake experimental programs/projects and interpret and report on experimental results as well as producing reports and publishing of research findings.

- Maintain effective working relationships with team members, other ANSTO teams and clients including Australian Federal Police Forensics.
- Participate in collaborations with local, national and international scientists and stakeholders to produce capability outcomes.
- Produce and deliver education and training materials on nuclear forensic science for a wide range of audiences.
- Undertake additional duties as required and during period of leave of other staff.

Decision Making

- The ANSTO values, organisational corporate plan, business plan, operational excellence program and Nuclear Stewardship Business Plan provide the context for the position.
- The position holder works within a framework of legislation, policies, professional standards and resource parameters. Within this framework the position holder has some independence in determining the tasks and activities required to achieve day-to-day activities.
- The position is fully accountable for the accuracy, integrity and quality of the content of advice provided and is required to ensure that decisions are based on sound evidence.
- Daily work priorities are determined within the context of agreed work plans and the position holder will consult with the line manager on complex, sensitive and major issues that have a significant impact.
- The levels of authority delegated to this position are those approved and issued by the Chief Executive Officer. All delegations will be in line with the ANSTO Delegation Manual AS-1682 (as amended or replaced).

Key Challenges

- Perform nuclear forensics analysis, expert interpretation and client reporting meeting client expectations.
- Proposing new capabilities, the development of work plans and completion of activities within the strategic direction of Nuclear Stewardship.
- Maintain communication and knowledge sharing networks with internal collaborators and external stakeholder and clients in law enforcement.
- Delivering quality outcomes within designated timeframes.

KEY RELATIONSHIPS

Who	Purpose
Internal	
Line Manager	<ul style="list-style-type: none"> • Receive guidance and direction • Provide expert advice on a full range of matters
Work area team members	<ul style="list-style-type: none"> • Provide expert advice on a full range of matters • Contribute to group decision making processes, planning and goals • Collaborate and share accountability • Negotiate and resolve conflicts
Other ANSTO staff	<ul style="list-style-type: none"> • Establish constructive relationships • Provide and receive instruction, direction, support, training and technical leadership • Liaise with for analytical requests and reporting
External	
Stakeholders and clients	<ul style="list-style-type: none"> • Establish constructive relationships • Provide advice on capabilities and scheduling • Liaise with for requests and reporting • Collaborate on technical projects

Instrument suppliers and providers of calibration, and maintenance services	<ul style="list-style-type: none"> • Establish constructive relationships • Clearly communicate needs, deliverables and expected outcomes
---	---

POSITION DIMENSIONS

Staff Data	
Reporting Line	Reports to the Science Program Manager – Services & Operations
Direct Reports	Nil
Indirect Reports	Nil

Special / Physical Requirements

Location:	Lucas Heights Working in different areas of designated site/campus as needed
Travel:	Infrequent travel both internationally and nationally
Physical:	Office based physical requirements (sitting, standing, minimal manual handling, movement around office and site, extended hours working at computer) Labour intensive physical requirements (sitting, standing, frequent manual handling) Standing for long periods Public speaking Wearing personal protective equipment for the handling of hazardous and/or radioactive materials
Radiation areas:	May be required to work in radiation areas under tightly regulated conditions Perform duties in an area where radioactive materials are handled under tightly controlled safety conditions Perform duties with and in an area where hazardous chemicals or materials are handled under tightly controlled safety conditions
Hours:	Willingness to work extended and varied hours based on operational requirements After hours work may be required for short and infrequent periods
Clearance requirements:	Satisfy ANSTO Security and Medical clearance requirements Obtain and maintain appropriate federal government clearance

Workplace Health & Safety

Specific role/s as specified in <u>AP-2362</u> of the ANSTO WHS Management System	All Workers Other specialised roles identified within the guideline a position holder may be allocated to in the course of their duties
---	--

KNOWLEDGE, SKILLS AND EXPERIENCE

1. Bachelor of Science degree in radiochemistry, analytical chemistry, applied chemistry, chemistry or forensic science, or related discipline.
2. Experience working in a laboratory within a highly regulated environment.
3. Sound knowledge of and experience in forensic science based laboratory practises and arrangements and knowledge of the nuclear fuel cycle.
4. Demonstrated ability to produce and report on analytical measurements consistent with client expectations.
5. Experience in meeting client expectations and operating within tight deadlines.
6. Experience in the development and maintenance of productive work place relationships and working co-operatively with others as part of a team.
7. Excellent verbal communication skills with emphasis on the ability to communicate clearly with people at a variety of organisational levels.
8. Report writing skills with the ability to produce scientific reports and publications.
9. Experience working safely with chemicals and radioactive materials.
10. Ability to interpret and apply policies and procedures and regulations.

VERIFICATION

This section verifies that the line manager and appropriate senior manager/executive confirm that this is a true and accurate reflection of the position.

Line Manager		Delegated Authority	
Name:	Kaitlyn Toole	Name:	Jennifer Harrison
Title:	Science Program Manager – Services & Operations	Title:	General Manager – Nuclear Stewardship
Signature:		Signature:	
Date:		Date:	