



POSITION DESCRIPTION

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|---|-----------------------------|
| Position Title: | Nuclear Forensics Scientist |
| Cluster / Business Unit / Division | NSSS – Nuclear Stewardship |
| Section or Unit: | Nuclear Forensics |
| Classification: | Band 4 |
| Job Family: | Science |
| Position Description Number: | PD-1425 |
| Work Contract Type: | Research |
| STEMM/NON-STEMM: | STEMM |

POSITION PURPOSE

The primary objective of the Nuclear Forensics Scientist is to contribute towards the overall capabilities of the Nuclear Forensics capability area, 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 the national organisation for nuclear science and technology. We focus on undertaking leading edge research, delivering innovative scientific services and providing specialised advice to government, industry, academia and other research organisations.

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

The key accountabilities for this position include:

- Contribute towards nuclear forensics projects and capabilities through the utilisation of knowledge, skills and experience in chemistry, radiochemistry or forensic science;
- Contribute towards research in the area of national security and forensic science;
- Undertake analysis and analytical measurement interpretation in a forensic science context, relevant to client needs;
- Propose new analytical and capability ideas, develop work plans and completing activities within the strategic research directions of the capability area;
- Apply knowledge to ensure that forensic science considerations are accounted for in development of new analytical capabilities;
- Undertake experimental programs/projects and interpret and report on experimental results.
- Maintain and establish effective working relationships with team members and clients;
- Participate in collaborations with local, national and international scientists and stakeholders to produce analytical capability outcomes;

- Undertake additional duties as required and during periods of leave of other staff.

Decision Making

- The ANSTO values, organisational corporate plan, business plan, operational excellence program, Nuclear Stewardship Business Plan and Nuclear Forensics Capability Area Operational Plans and Arrangements 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 will be provided with the parameters in which to operate the laboratories and facilities. 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 to users and staff, 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 on the Nuclear Forensics capability area.
- 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

The major challenges for this position include:

- Establishing communication and knowledge sharing networks with internal collaborators and stakeholders;
- Delivering quality outcomes within designated timeframes

KEY RELATIONSHIPS

| Who | Purpose |
|---|---|
| Internal | |
| Line Manager | <ul style="list-style-type: none"> • Receive guidance and direction • Receive expert, authoritative and evidence based advice |
| Work area team members | <ul style="list-style-type: none"> • Provide expert advice and analysis on a full range of matters • Contribute to group decision making processes, planning and goals • Collaborate and share accountability • Negotiate and resolve conflicts |
| ANSTO Users (scientists, researchers, technical staff) | <ul style="list-style-type: none"> • Establish constructive relationships • Provide supervision, instruction, direction, support, training and technical leadership • Provide advice on analytical capabilities • Liaise with for analytical requests and reporting |
| External | |
| Scientists, Researchers and technical staff | <ul style="list-style-type: none"> • Establish constructive relationships • Provide advice on analytical capabilities and scheduling • Liaise with for analytical requests and reporting • Collaborate with on new research ventures |
| 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 Manager, Nuclear Forensics |
| Direct Reports | Nil |
| Indirect Reports | Nil |

| Financial Data (2021/2022) | |
|-----------------------------------|-----|
| Revenue / Grants | N/A |
| Operating Budget | N/A |
| Staffing Budget | N/A |
| Capital Budget | N/A |
| Assets | N/A |

| Special / Physical Requirements | |
|--|---|
| Location: | Lucas Heights Working in different areas of designated site/campus as needed |
| Travel: | May be required travel to ANSTO sites from time to time 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>AG-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 |

ORGANISATIONAL CHART

Refer to the published organisation chart.

KNOWLEDGE, SKILLS AND EXPERIENCE

1. Bachelor of Science degree in radiochemistry, analytical chemistry, applied chemistry, chemistry or forensic science, or related discipline (or equivalent professional experience);
2. Experience working in a laboratory within a highly regulated environment;

3. Knowledge of forensic science based laboratory practises and arrangements and knowledge of the nuclear fuel cycle;
4. Demonstrated ability to produce experimental results under guidance and supervision;
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. Good verbal communication skills with emphasis on the ability to communicate clearly with people at all levels;
8. Report writing skills with the ability to contribute towards scientific reports and publications;
9. Experience working safely with chemicals and radioactive materials;
10. Ability to interpret and apply policies and procedures and regulations;
11. Demonstrated personal qualities that add value to the work group;

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: | Jennifer Harrison | Name: | Miles Apperley |
| Title: | Leader, Nuclear Stewardship | Title: | Head of Platforms, Research Infrastructure |
| Signature: | | Signature: | |
| Date: | | Date: | |