



POSITION DESCRIPTION

Position Title:	OPAL Reactor Operator
Cluster / Business Unit / Division	Nuclear Precinct / Reactor Operations
Section or Unit:	OPAL Operations
Classification:	Band 3 / 4
Position Description Number:	PD-0669
Work Contract Type:	Technical
STEMM/NON-STEMM:	STEMM

POSITION PURPOSE

The primary objective of the OPAL Reactor Operator is to ensure the safe and efficient operation of the OPAL reactor facility and associated plant and equipment.

ORGANISATIONAL ENVIRONMENT

ANSTO leverages great science to deliver big outcomes. We partner with scientists and engineers and apply new technologies to provide real-world benefits. Our work improves human health, saves lives, builds our industries and protects the environment. ANSTO is the home of Australia's most significant landmark and national infrastructure for research. Thousands of scientists from industry and academia benefit from gaining access to state-of-the-art instruments every year.

The Reactor Operations section within the Nuclear Precinct operates the OPAL reactor for the purpose of supporting the strategic objectives of ANSTO. This includes the provision of neutron beams to ACNS and irradiation services to ANSTO Nuclear Medicine for radiopharmaceutical production and other industrial and academic customers.

ACCOUNTABILITIES & RESPONSIBILITIES

Key Accountabilities

The key accountabilities for the Band 3 position include:

- Assist with monitoring the state of OPAL plant & equipment from a computer based monitoring system or from the field to ensure operational systems are working correctly.
- Safely and efficiently operate the OPAL reactor from within the main control room or from the field in accordance with approved procedures and instructions under supervision.
- Demonstrate willingness to expand skills via training and knowledge sharing with colleagues to contribute to the overall multi skilling of the OPAL Reactor Operations team.
- Fulfil WHS responsibilities as specified in AG-2362 of the ANSTO WHS system.

In addition to performing all Band 3 key accountabilities, the key accountabilities for a Band 4 position include:

- Independently monitor the state of OPAL plant & equipment from a computer based monitoring system or from the field to ensure operational systems are working correctly.
- Safely and efficiently operate the OPAL reactor from within the main control room or from the field in accordance with approved procedures and instructions including functional testing of plant and equipment, performance of routine surveillances, responding to incidents and reporting.
- Perform defined radiological protection and surveillance tasks.

- Apply analytical and diagnostic skills to suggest potential improvements or identify and avoid potential problems with the aim of improving plant reliability, operational processes and ensuring the safe and efficient operation of the OPAL Reactor.
- Contribute to safe and efficient operation of the OPAL reactor through the application of technical expertise, proactive attitude and demonstration of excellent safety practices.
- Make recommendations to the Shift Manager regarding suggested improvements in operating practices, or project/ task outcomes.
- Co-ordinate, mentor and train other OPAL Operational staff on practices, processes and procedures, including work safety practices.

Decision Making

- Determine key safety, security and reliability priorities within the context of training, policies, procedures and instructions and will consult with the Relevant Manager/Supervisor 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

The major challenges for this position include:

- Maintain knowledge of OPAL plant modifications and operating practices with the aim of improving the safety of the facility and efficient operation.
- Attend the Operator training course and obtain and maintain accreditation for the control of reactor operations.
- Seek ongoing improvements in the safety and operability of plant and make recommendations to the Shift Manager
- Establish strong relationships within the OPAL teams and across client groups.

KEY RELATIONSHIPS

The position's key internal relationships include the Shift Manager, other Reactor Operators, OPAL Operations Manager, OPAL Utilisation, Engineering and Maintenance, Radiation Protection, Technical Support, Nuclear Analysis Section, ANSTO Maintenance and Engineering, ACNS, ANSTO Security and Safeguards and other divisions within ANSTO. Reactor Operators have occasional direct contact with external stakeholders.

Who	Purpose
Internal	
Shift Manager & Operations Manager	<ul style="list-style-type: none"> • Apply analytical and diagnostic skills to suggest potential improvements or identify and avoid potential problems with the aim of improving plant reliability, operational processes and ensuring the safe and efficient operation of the OPAL Reactor • Make recommendations regarding suggested improvements in operating practices, or project/ task outcomes • Safely and efficiently operate the OPAL reactor from within the main control room or from the field in accordance with approved procedures and instructions under Supervision
Other Reactor Operators	<ul style="list-style-type: none"> • Willingness to work in a team environment • Strong verbal and written communication skills • Reporting unsafe work practices, equipment, incidents and near misses • Demonstrate willingness to expand skills via training and knowledge

	<p>sharing with colleagues to contribute to the overall multi skilling of the OPAL Reactor Operations team</p> <ul style="list-style-type: none"> • Co-ordinate, mentor and train other OPAL Operational staff on practices, processes and procedures, including work safety practices
OPAL Utilisation, OPAL Maintenance, OPAL Engineering, Radiation Protection, ACNS, ANSTO Security & Safeguards, ANSTO Maintenance and Engineering	<ul style="list-style-type: none"> • Willingness to work in a team environment • Strong verbal and written communication skills • Perform defined radiological protection and surveillance tasks • Safely and efficiently operate the OPAL reactor from within the main control room or from the field in accordance with approved procedures and instructions • Fulfil WHS responsibilities as specified in AG-2362 of the ANSTO WHS system
Nuclear Analysis Section & Technical Support Group	<ul style="list-style-type: none"> • Maintain knowledge of OPAL plant modifications and operating practices with the aim of improving the safety of the facility and efficient operation • Attend the Operator training course and obtain and maintain accreditation for the control of reactor operations • Establish strong relationships within the OPAL teams and across client groups
External	
Tours, Important Visitors & Contractors	<ul style="list-style-type: none"> • Establish strong relationships • Occasional supervision

POSITION DIMENSIONS

The OPAL Reactor Operator reports to the Manager, OPAL Operations. While on shift the OPAL Reactor Operator works within a shift team and reports to the OPAL Shift Manager. The Reactor Operator is required to work on a rotating 24hr, 7 day shift roster.

Whilst the role does not have any direct reports, the incumbent may be required to supervise contractors and trade people working within the reactor facility.

Special requirements of the role include:

- 24 hour shift rotation.
- Flexible approach to working hours and working arrangements
- Willingness to work in an area where radioactive materials are handled under tightly controlled safety conditions.
- The position requires the ability to travel to and from work whilst working a shift rotation without compromising safety of plant or person.
- Satisfy Citizenship, ANSTO Security and Medical clearance requirements.

Requirements for Transition from Band 3 to Band 4:

- Demonstrated competence, accreditation and authorisation as a OPAL Reactor Operator.
- Demonstrated capability to independently and responsibly perform work by exercising sound individual judgement that will not challenge the safety and reliability of the facility.
- Ability to apply extensive knowledge and experience to operate complex reactor systems.
- Demonstrated commitment to provide feedback and contributions to the process of continual improvement in safety, efficiency and individual knowledge and competency.

The transition from Band 3 to Band 4 will occur following a recommendation from the relevant supervisor, assessment by management and approval from General Manager, Reactor Operations. Transition is not automatic and compliance with transition criteria will need to be demonstrated and assessed.

Work Health and Safety requirements include:

- Responsibility for undertaking their activities in a safe manner and cooperating with WHS requirements of their division to improve WHS in their workplace
- Reporting unsafe work practices, equipment, incidents and near misses
- Working safely to reduce risk to self and others
- Using appropriate controls
- Taking a proactive approach to WHS

Staff Data	
Reporting Line	Reports to the Shift Manager
Direct Reports	Nil
Indirect Reports	Nil

Special / Physical Requirements	
Location:	Lucas Heights Working in different areas of designated site/campus as needed
Travel:	The position requires the ability to travel to and from work whilst working a shift rotation without compromising safety of plant or person.
Physical:	Industrial facility physical requirements (lifting, standing for long periods, manual handling, operating machinery, equipment) Wearing personal protective equipment for the handling of hazardous and/or radioactive materials Working at heights Use of respiratory equipment Working in a loud environment
Radiation areas:	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:	Flexible approach to working hours and working arrangements Shift work Required to participate on an on-call roster 24x7x365
Clearance requirements:	Satisfy Citizenship, ANSTO Security and Medical clearance requirements. Obtain and maintain appropriate federal government clearance

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

KNOWLEDGE, SKILLS AND EXPERIENCE

The knowledge, skills and experience for a Band 3 position include:

1. Possession of a trade certificate, post trade qualifications or Advanced Diploma (or equivalent).

2. Strong Mechanical aptitude and demonstrated ability to proactively apply analytical and diagnostic skills.
3. Ability to operate plant & equipment from the field or from a computer based control system.
4. Demonstrated experience in following policy, procedure and instructions.
5. Demonstrated knowledge of safe work practices and safety culture.
6. Strong verbal and written communication skills, including experience with the production of written technical reports.
7. Ability and willingness to work in a team environment.

In addition to demonstrating strong knowledge, skills and experience at a Band 3 level, the Band 4 position also requires:

8. Accreditation and authorisation as an OPAL Reactor Operator.
9. Knowledge of research reactor design and operations, particularly OPAL. Experience working within a Reactor operations environment.
10. Demonstrated experience in following policy, procedure and instructions as directed by the Shift Manager with minimal supervision.
11. Experience working in a regulated environment.

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:	David Vittorio	Name:	Pamela Naidoo-Ameglio
Title:	OPAL Reactor Manager	Title:	Group Executive Nuclear Operations
Signature:		Signature:	
Date:		Date:	