

POSITION DESCRIPTION

Position Title:	Plant Engineer
Cluster / Business Unit / Division	NSTLI/Australian Synchrotron/Operations
Section or Unit:	Engineering - Facilities
Classification:	Band 6
Position Description Number:	PD-1719
Work Contract Type:	Technical

POSITION PURPOSE

The Plant Engineer is responsible for the operation and maintenance of the facility's major plant for reliability and efficiency in order to provide services to the facility. The key objective of this role is to ensure continuous plant operation that provides services to critical systems and site operations. The plant engineer is fully accountable for maintaining the cooling towers to meet health and safety regulations as required by state legislation.

The Engineering Department is a group of multi-disciplined teams tasked with supporting the technical development and ongoing operational support of the facility. The technical scope encompasses the accelerator and beamline systems as well as their supporting technical infrastructure. To meet this challenge the Department is required to develop and maintain specialist skills and capability which are to be applied to the delivery of often technically challenging projects.

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.

The Australian Synchrotron provides world-leading technical capability, and the nucleus around which new science and industry networks form as researchers interact. The synchrotron delivers better and faster experimental techniques that not only enhance current fundamental and applied research, but also open up new avenues of investigation to Australian science. The facility promotes international collaboration to enable leading-edge research and development, and is a hub for research that greatly benefits Australia and its regional neighbours.

ACCOUNTABILITIES & RESPONSIBILITIES

Key Accountabilities

- Develop, implement and regularly update operational plans and maintenance strategies, including clarifying objectives and priorities for the Synchrotron Facilities team in line with the broader strategic objectives of ANSTO.
- Manage the day-to-day Maintenance delivery strategies for entire site in accordance with the Asset Management plan whilst maintaining compliance with Operating Limits and Conditions, operating licence conditions, ARPANSA and TGA regulations to maintain and improve safety and operational efficiency and compliance. This includes the oversight of maintenance staff requirements to comply with the day-to-day safety needs of the facility including WHS.
- Take accountability for the facility's plant and its impact on machine availability to ensure that the accelerator, beamlines and buildings are supplied with critical services.
- Act as ANSTO's delegate to COMCARE for registrations and renewals for all of ANSTO Melbourne's plant pressure vessels.

- Contribute to and support project and process engineers in the development and continuous improvement of asset management strategies and plans to support achievement of plant performance and condition targets, including optimised programs for: plant maintenance & surveillance; condition monitoring & materials surveillance, spare parts and logistics management; component replacements & renewals; obsolescence management; and other specific programs identified in the asset management strategy.
- Plan and deliver plant and equipment shutdowns for maintenance and installation of new equipment taking into account, production supply constraints and quality control.
- Manage and be fully accountable for the provision to the facility of compressed air, cooling water and hot water by the plant, to ensure that the beamlines and plant are supplied with critical services.
- Manage compliance with the requirements of essential services regulations. Ensure regular testing/maintenance is carried out and records/reports kept in a central location, meeting regulatory and WHS obligations associated with the plant
- Lead and integrate continuous improvement methodologies through considering alternative design concepts, constructability and operability factors, and the application of lessons learnt, and strive to deliver improvements
- Monitor the plant distribution systems which are critical to the operation of the synchrotron
- Supervise on site contractors that are engaged to provide specialized work on the plant and ensure all work is carried out in a safe manner and according to ANSTO contractor management procedure
- Provide technical support and specialized knowledge to the facilities team in regard to Air Conditioning equipment.
- Undertake additional duties as required and during period of leave of other staff.

Decision Making

This role makes decisions related to:

- 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.
- The position is to determine key work priorities for the Maintenance team, within the context of agreed work plans and will consult with key stakeholders on complex, sensitive and major issues that have a significant impact on the building
- Coordination and prioritization of project activities for which the role is accountable
- Prioritization of day to day work and just-do-it's as requested
- Selection and sourcing of contractors and service providers
- Minor changes/updates to the plant
- 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

- Manage the performance of multiple systems on which all internal stakeholders rely on to ensure their own performance objectives are met.

KEY RELATIONSHIPS

Who	Purpose
Internal	
Manager	<ul style="list-style-type: none"> • Receive guidance and direction • Provide expert, authoritative and evidence-based advice • Staff engagement and quality recruitment • Negotiate and report on budgets and resources consistent with strategic plans and goals • Recommend and gain endorsement for plans and goals and other initiatives
Work area team members	<ul style="list-style-type: none"> • Provide expert advice and analysis on a full range of matters relating to plant and facility requirements • Contribute to group decision making processes, planning and goals • Negotiate and collaborate to resolve conflicts • Clarify priorities and timing of maintenance activities • Engage in monitoring trends, performance and progress against the strategic plan and evaluate further support which may be required to ensure delivery against the plan
WHSE team	<ul style="list-style-type: none"> • Daily, weekly or as required to discuss upcoming on-site works, safety issues and provide documentation as required
Science teams and operators	<ul style="list-style-type: none"> • Regularly or as required to discuss issues during planned and unplanned shut downs, provide technical advice on specific technical issues, including those associated with the plant, provide guidance on the use of all services and respond to any noncompliance in the service delivery plant
OHSE	<ul style="list-style-type: none"> • Regularly or as required to arrange and supervise work carried out on all critical plant and equipment
External	
Contractors	<ul style="list-style-type: none"> • On site as required to arrange and supervise work carried out within the area of responsibility
Commonwealth Government, ARPANSA, COMCARE	<ul style="list-style-type: none"> • Create clear and transparent communication channels • Compliance with standards and regulations

Financial Data (2015/2016)

Revenue / Grants	Nil
Operating Budget	
Staffing Budget	
Capital Budget	
Assets	

POSITION DIMENSIONS

Staff Data	
Reporting Line	Reports to the Facilities and Maintenance Manager
Direct Reports	Nil
Indirect Reports	Maintenance Planner, Maintenance Technicians-

Special / Physical Requirements

Location:	Clayton Working in different areas of designated site/campus as needed May be required to travel to ANSTO sites interstate May be required to travel internationally
Travel:	May be required travel to ANSTO sites from time to time
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 up to 20kg) Working in a loud environment Public speaking Industrial facility physical requirements (lifting, standing for long periods, operating machinery, equipment and manipulators) 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 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 needs and requirements
Clearance requirements:	Satisfy ANSTO Security and Medical clearance requirements

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
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ORGANISATIONAL CHART


On file.

KNOWLEDGE, SKILLS AND EXPERIENCE

1. Relevant degree/diploma level engineering qualification preferably in mechanical engineering or equivalent experience.
2. Demonstrated extensive experience in plant management.
3. Specialised engineering and technical knowledge in the area of plant management across mechanical, electrical and controls aspects of plant engineering.
4. The ability to build relationships with contractors and peers in other facilities.
5. Significant experience planning and prioritising maintenance activities and shutdowns.
6. The ability to problem solve in a methodical, systematic manner.
7. Experience in Project Management methodology.
8. The ability to work collaboratively in a workplace with many stakeholders and competing priorities.
9. The ability to communicate effectively across the organisation and effectively express technical issues to non-technical staff.
10. The desire to seek and promote continuous improvement demonstrated ability and willingness to implement change.

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:	Michael Legg	Name:	Brad Mountford
Title:	Facilities manager Engineering	Title:	Head of engineering
Signature:		Signature:	
Date:	10/01/2020	Date:	