



POSITION DESCRIPTION

Position Title:	Electrical Resilience Engineer
Cluster / Business Unit / Division	ANSTO Maintenance & Engineering (AME)
Section or Unit:	Engineering Delivery and Special Projects
Classification:	Band 6
Job Family:	Electrical Engineering
Position Description Number:	PD-1626
Work Contract Type:	Professional/Technical
STEMM/NON-STEMM:	STEMM

POSITION PURPOSE

The primary objective of the Electrical Resilience Engineer is to manage a program of work to improve the safety, reliability and resilience of the site electrical distribution network and systems connected to it.

This program of work will reduce maintenance costs, nuisance callouts to restart systems and wastage caused by unplanned production interruptions and will implement a reporting and analysis framework which will drive continuous improvement in electrical supply resilience.

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.

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.

ANSTO Maintenance and Engineering (AME) provides comprehensive project management, engineering, technical, and safety & reliability services, and support for the organisation. AME is comprised of the Asset Maintenance, Technical Services, Safety Assurance and Compliance, System Safety and Reliability, Engineering Delivery and Special Projects Groups.

The Engineering Delivery and Special Projects is responsible for delivery of all ANSTO engineering jobs and projects. This office is aligned to major customer portfolios as follows:

- Nuclear Science and Technology,
- Site Development and Enablers
- Nuclear Operations
- Decommissioning
- Customer Advocacy & Value Chain

Each Portfolio is led by an Engineering Portfolio Leader and engineering and drafting resources are assigned to these portfolios as workload demands. As work in the portfolios varies, engineering and drafting staff are required to move from one portfolio to another.

The Engineering Delivery and Special Projects is responsible for project planning and providing the technical support required to meet the demands for all work coming into AME through the respective portfolios and the development and maintenance of the relevant technical standards required to meet ANSTO's specific requirements. This unit is also responsible for staff development and training for the engineering and

drafting disciplines and justifying recruitment when additional skilled personnel are required. Business systems, technical specifications and standards which govern the conduct of engineering work at ANSTO are overseen by the Technical Services Group.

ACCOUNTABILITIES & RESPONSIBILITIES

Key Accountabilities Band 6

The key accountabilities for this position include:

- Lead and manage the Electrical programs/project work, which includes interacting with stakeholders to maximise the reliability, redundancy and availability of the site electrical power network and facilities.
- Implement and co-ordinate program/project activities and devise additional initiatives to benefit the aims of the project.
- Undertake detailed project/program planning including developing a task brief to deliver the project on time and on budget.
- Oversee the rejuvenation or replacement of obsolete or unreliable plant and equipment.
- Enhance the data-logging, networking, reporting and visibility of network power flows and condition-monitoring.
- Interact with energy providers and suppliers.
- Understand, review, and implement improvements to both the HV and LV network at ANSTO.
- Undertake additional engineering and program/project duties as required and during periods of leave of other staff.

Decision Making

- The position works within a framework of legislation, policies, professional standards, and resource parameters. Within this framework the position has some independence in determining how to achieve objectives of the unit, including deciding on methods and approaches, operations, project planning and allocation of resources.
- The ANSTO values, organisational corporate plan, business plan, operational excellence program, the project management strategy and AME objectives provide the context for the position.
- The position is fully accountable for the accuracy, integrity, and quality of the content of advice provided to stakeholders and is required to ensure that decisions are based on sound evidence, but at times may be required to make effective judgements under pressure or in the absence of complete information or expert advice.
- Determine key work priorities within the context of agreed work plans and will consult with the Site Electrical Engineer 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 initial key challenges for this position include:

- Management of a program of activities to improve the performance of ANSTO's electrical infrastructure.
- The establishment of standards, and reporting & analysis tools.
- Enhance and improve established relationships with energy & transmission providers.
- Ensuring the successful implementation of strategic objectives and project completion whilst managing conflicting priorities and deadlines.
- Keeping abreast of recent developments in field, ensuring continual improvement and implementation of best practise.
- Improving customer service, response times and delivery efficiencies.

KEY RELATIONSHIPS

Who	Purpose
Internal	
Manager/Executive	<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 • Contribute to group decision making processes, planning and goals • Collaborate and share accountability • Negotiate and resolve conflicts
Direct Reports	<ul style="list-style-type: none"> • Provide leadership, guidance, and support • Set performance requirements and manage performance and development • Engage to monitor trends, performance and progress against the strategic plan and evaluate further support which may be required to ensure delivery against the plan
Other departments (name)	<ul style="list-style-type: none"> • Ongoing engagement with AME maintenance and key electrical staff and stakeholders
External	
AUSGRID	<ul style="list-style-type: none"> • Enhance and improve established relationships with energy & transmission providers • Provide updates on AUSGRID activities to Key ANSTO stakeholders

POSITION DIMENSIONS

Staff Data	
Reporting Line	Reports to the Site Electrical Engineer
Direct Reports	Nil
Indirect Reports	Sub-division ~4

Financial Data (2022/2023)

Revenue / Grants	
Operating Budget	Nil
Staffing Budget	
Capital Budget	
Assets	

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

Physical:	Office based physical requirements (sitting, standing, minimal manual handling, movement around office and site, extended hours working at computer) 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
Hours:	Willingness to work extended and varied hours based on operational requirements
Clearance requirements:	Satisfy ANSTO Security and Medical clearance requirements

Workplace Health & Safety

Specific role/s as specified in AP-2362 of the ANSTO WHS Management System	All Workers Officer (definitions found in appendix A of AP-2362) Group Executive / General Manager Managers / Leaders / Supervisors Other specialised roles identified within the guideline a position holder may be allocated to in the course of their duties
--	---

ORGANISATIONAL CHART

On file

KNOWLEDGE, SKILLS AND EXPERIENCE

Band 6 level

1. Degree qualification in Electrical or Power Engineering recognised by Engineers Australia.
2. Previous experience operating as an electrician or knowledge of AS3000 would be advantageous.
3. Extensive experience including troubleshooting in a similar role responsible for power continuity in an industry where power availability is an essential business requirement.
4. Sound knowledge of both HV & LV electrical distribution & protection,
5. Strong safety focus.
6. In depth knowledge of applicable standards & best practice.
7. Ability to negotiate with stakeholders, suppliers, and contractors.
8. Significant electrical project management experience.
9. Experience in multiple aspects of commercial electrical work with a good knowledge of generator systems, UPS systems, source transfer switching, metering, switchboards earthing and surge protection.
10. Personal qualities that add value to a team operating in a high-level client service / safety & quality environment.
11. Strong interpersonal skills, with a proven ability to get work completed through effective leadership and communication.

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:	Andrew Worboys	Name:	Dave Filipetto
Title:	Site Electrical Engineer	Title:	GE ANSTO Maintenance & Engineering
Signature:		Signature:	
Date:		Date:	