



POSITION DESCRIPTION

Position Title:	Pilot Plant Technician
Cluster / Business Unit / Division	Commercial Products and Services
Section or Unit:	Minerals
Classification:	Band 4
Job Family:	Engineering and Technical
Position Description Number:	PD-1152
Work Contract Type:	Technical
STEMM/NON-STEMM:	STEMM
STEMM CATEGORY:	Technical

POSITION PURPOSE

The primary objective of the pilot plant technician is to provide comprehensive technical support, including the non-routine operation of pilot plants and the maintenance of pilot plant equipment, to projects managers and professionals undertaking commercial operations in the pilot plant facilities.

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 ANSTO Minerals business unit is a team of 60 consultants and technicians with expertise that covers chemical engineering, metallurgy, mineralogy, chemistry, geology, and radiation safety. ANSTO Minerals provides practical solutions and innovative technology in ways that deliver financial and environmental benefits to the mining and minerals processing industries. The Group also conducts research that seeks to identify, investigate and develop technologies that will lead to cleaner and more environmentally sustainable operations in the uranium, and other, mining sectors.

Minerals incorporates a Pilot Plant Group that undertakes pilot plant and related projects in order to support the commercialisation of new processes and process improvements.

ACCOUNTABILITIES & RESPONSIBILITIES

Key Accountabilities

- Supervise pilot plant operators, as a shift leader, including liaison with the project leader to achieve agreed targets;
- Install, maintain and operate pilot plant equipment and circuits and carry out experiments in order to meet project requirements;
- Develop standard operating procedures, considering relevant Australian standards and continually review practices for improvement;
- Contribute to pilot plant process and facility design and modifications, including the interpretation and preparation of technical sketches.
- Supervise contractors working in the pilot plant.

- Plan and schedule the daily work load to meet project outcomes and deliver on time to meet constantly changing client requirements
- In all work, ensure that procedures are followed and that data obtained is reproducible, accurate, appropriately recorded
- Maintain good housekeeping standards in the pilot plant
- Work collaboratively, sharing ideas and expertise with other staff to ensure pilot plant is effectively functioning.
- Fulfilling OHSE responsibilities as specified in AS 2362 of the ANSTO OHSE system.
- Undertake additional duties as required and during period of leave of other staff.

Decision Making

- The position has limited discretion in decision making without referring to a supervisor and generally involves application of established procedures and guidelines. Where pre-determined procedures are not effective, the position involves troubleshooting to generate improvements to procedures and approaches in consultation with other technicians and professionals.
- 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:

- Carrying out multiple tasks to tight deadlines
- Adjusting plans to suit changing priorities
- Meeting needs of different managers and clients
- Troubleshooting complex systems

KEY RELATIONSHIPS

Who	Purpose
Internal	
Manager/Executive	<ul style="list-style-type: none"> • Receive guidance and direction • Recommend and gain endorsement for plans and goals and other initiatives
Work area team members	<ul style="list-style-type: none"> • Contribute to group decision making processes, planning and goals • Work within groups to achieve target project outcomes • Guide and informally supervise students and other more junior technical staff • Work within groups to ensure WHS and Quality requirements are met
Other departments	<ul style="list-style-type: none"> • There are no formal arrangements with other departments in ANSTO, however it may be necessary to work collaboratively with them from time to time, depending on project and operation requirements.
External	
Commercial clients	<ul style="list-style-type: none"> • May be required to outline and discuss operation of experimental setups with clients when they are visiting.
Suppliers	<ul style="list-style-type: none"> • From time to time may need to liaise with suppliers of chemicals or equipment.

POSITION DIMENSIONS

Staff Data	
Reporting Line	Reports to a Senior Process Engineer
Direct Reports	Nil
Indirect Reports	Nil

Special / Physical Requirements	
Location:	Lucas Heights Working in different areas of designated site/campus as needed
Travel:	May be required to travel to ANSTO or remote mine 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) Standing for long periods 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 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 Shift work is required occasionally 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 Officer (definitions found in appendix A of AP-2362) 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

1. Extensive experience in the operation, maintenance and modification of chemical or metallurgical plant or pilot plant equipment
2. A mechanical trade qualification and/or a diploma or certificate in Chemistry or a related area would be highly regarded
3. Ability to work safely with chemicals and radioactive materials
4. Ability to conduct routine and non-routine experiments under minimal supervision
5. Ability to plan and set up experiments, collect and present data based on required outcomes
6. Basic computer skills in Word and Excel

7. Current driving licence
8. Work co-operatively with others as part of a team
9. Ability to interpret and apply policies and procedures and regulations
10. Demonstrate personal qualities that will add value to the work group.

VERIFICATION

Line Manager		Delegated Authority	
Name:	James Lowe	Name:	Adrian Manis
Title:	Senior Process Engineer	Title:	Manager, Pilot Plant Operations
Signature:		Signature:	
Date:		Date:	