



POSITION DESCRIPTION

Position Title:	Senior Mechanical Technician
Cluster / Business Unit / Division	Engineering
Section or Unit:	Mechanical Technicians
Classification:	Band 4
Job Family:	Engineering and Technical
Position Description Number:	PD-1843
Work Contract Type:	Technical
STEMM/NON-STEMM:	STEMM

POSITION PURPOSE

The Senior Mechanical Technician is responsible for provide specialized skills and technical expertise relating to the fabrication, installation, commission and maintenance mechanical systems to support accelerator and beamline equipment, in order to facilitate science and research & development at the SLSA.

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 Synchrotron Light Source Australia (SLSA) 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.

The Engineering Group at the Synchrotron provides comprehensive engineering, technical, safety, reliability, design, build and maintenance services, delivering engineering solutions to the Beamline Science Group including supporting the delivery of major capital programs and engineering upgrades. The Engineering Group comprises of the Mechanical Engineering Team, Mechanical Technicians Team, Electrical Engineering Team and the Facilities Team including Plant maintenance.

ACCOUNTABILITIES & RESPONSIBILITIES

Key Accountabilities

- Plan, maintain and commission complex mechanical systems to ensure new and existing mechanical systems are operating at required conditions
- Design and fabrication of specialized mechanical equipment ensuring integration and operation of accelerator and beamlines
- Facilitate and plan the effective running of relevant mechanical projects so that deliverables meet the correct requirements, installation and timing of installations during shutdowns
- Manage technical documentation, writing and developing SOP's and JSA/SWMS's to ensure compliance with facility standards and to obtain permits to work
- Supervise, train and mentor apprentices and technicians to ensure that all works are performed in a safe manner and according to the facility standards

- Negotiate hire, source and manage sub-contractors as required.
- Identify requirements, source and procure materials, spares, tooling and specialized equipment to ensure continuous running of mechanical systems and service materials.
- Testing / factory acceptance of (mechanical) technical equipment to meet the needs and safety regulations, standards and requirements of the facility.
- Liaise, collaborate and provide advice to other science & engineering groups with regard to mechanical systems and technical aspects for fabrication and servicing of equipment.
- Care and maintain mechanical workshop and laboratory equipment to ensure its availability when required
- Provide OHS/WHS advice on mechanical systems and processes and adhere to them

Decision Making

The role makes decisions related to:

- OHS/WHS procedures.
- Day to day technical jobs allocated within the area of responsibility
- Design and integration of parts.
- Sourcing, procurement of materials and components.
- Timeline coordination of jobs.
- Management of specialist projects / installations.
- Preparing Technical Documentation and interdepartmental liaising.
- 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 role makes decisions related to:

- OHS/WHS procedures.
- Day to day technical jobs allocated within the area of responsibility
- Design and integration of parts.
- Sourcing, procurement of materials and components.
- Timeline coordination of jobs.
- Management of specialist projects / installations.
- Preparing Technical Documentation and interdepartmental liaising.
- 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 RELATIONSHIPS

Who	Purpose
Internal	
Mechanical Group Leader	<ul style="list-style-type: none"> • To discuss priorities and requirements of jobs, PDPs etc

Engineering staff	<ul style="list-style-type: none"> To discuss cross departmental requirements of jobs/projects and advise best practices
Scientific staff	<ul style="list-style-type: none"> To discuss system requirements, advice on best practices and provide mechanical services
Facilities	<ul style="list-style-type: none"> To discuss, plan and advise on the requirements for plant and support equipment
Other internal support departments	<ul style="list-style-type: none"> For HR, safety and quality requirements
External	
Contractors	<ul style="list-style-type: none"> To ensure the availability and scheduling of contracted works during regular maintenance periods

POSITION DIMENSIONS

Staff Data	
Reporting Line	Reports to the Manager, Mechanical Technicians
Direct Reports	Nil
Indirect Reports	Nil

Special / Physical Requirements	
Location:	Clayton Working in different areas of designated site/campus as needed
Travel:	May be asked to 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) Standing for long periods Frequent movements (climbing, stooping, kneeling, crouching, crawling) Working in a loud environment Industrial facility physical requirements (lifting, standing for long periods, operating machinery, equipment and manipulators)
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:	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 AG-2362 of the ANSTO WHS Management System	All Workers Officer (definitions found in appendix 1 of AG-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

A trade technical qualification, or equivalent practical experience in a specialised Mechanical Engineering field.

Essential

1. At least 8 years demonstrated practical experience
2. Experience with complex systems & scientific instrumentation
3. Sound computers skills, including proficiency in MS Office products
4. Knowledge of 3D CAD modelling & ability for production
5. Demonstrated understanding of technical documentation and the ability to write technical reports
6. Demonstrated ability to balance competing priorities and use initiative
7. Experience with supervision of other technical staff and contractors
8. Project management skills
9. Working independently or as part of a team
10. Good time management and communication skills
11. High attention to detail

Desirable

1. Dogman License
2. Forklift License
3. Experience with the installation and maintenance of Ultra High Vacuum systems
4. Experience with survey & alignment of equipment to micron accuracy
5. Risk assessment

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: Trent Smith	Name: Brad Mountord
Title: Manager, Mechanical Technicians	Title: Senior Manager, Engineering
Signature:	Signature:
Date:	Date:

Appendix 1

ANSTO Job Families
Accounting & Finance
Administration
Communications & Marketing
Compliance & Regulation
Engineering and Technical
Human Resources
ICT & Digital Solutions
Information & Knowledge Management
Legal
Manufacturing
Monitoring & Audit
Operations
Organisational Leadership
Project & Program
Research
Science
Security & Intelligence
Senior Executive
Service Delivery
Strategic Policy
Trades & Labour