

POSITION DESCRIPTION

1. POSITION DETAILS

Position Title	Mechanical Asset Specialist
Business or Service Unit	Asset Solutions & Delivery
Position Manager	Asset Engineering Manager
Position Location	Negotiable

2. POSITION PURPOSE

To develop and maintain mechanical asset knowledge relevant to WNSW core asset capabilities and apply it in providing advice, developing standards, reviewing performance and supporting the maintenance, upgrade renewal and provision of new asset capability and drive excellence in safety

3. KEY ACCOUNTABILITIES

- (1) Ensure all activities are undertaken with the safety of people as the number one priority and at all times role model safe behaviour.
- (2) Develop and maintain Asset Performance and Configuration standards that describe WNSW's specific performance requirements and selection and implementation criteria to deliver required levels of service at the lowest whole of life cycle cost.
- (3) Develop operational performance testing processes to validate core asset capability within area of engineering discipline and attend high criticality asset performance tests to witness validation of key asset performance capabilities, contribute advice regarding compliance and recommend further works.
- (4) Develop a detailed and thorough knowledge of core asset classes within area of discipline and ensure relevant documentary resources such as manuals and drawings are available and updated accordingly
- (5) Manage, specify, and execute small-scale through to large-scale engineering investigations including the completion of all aspects of the Engineering design effort (i.e. design calculations, drawings, computer modelling, specifications, design reports and technical review and inspection of works)
- (6) Utilise detailed asset knowledge, performance and configuration standards to advise on provision of new assets, major maintenance activities, failure investigations, reliability reviews and rectification, and upgrade or renewal proposals

4. SIGNIFICANT EXTERNAL RELATIONSHIPS FOR WHICH THIS POSITION IS THE PRIMARY CONTACT

5. AUTHORITY LIMITS

- As per *Standing Delegations* instrument from time to time.

6. MANDATORY KNOWLEDGE AND QUALIFICATION REQUIREMENTS

- Bachelor degree in Mechanical Engineering or higher form of tertiary institution
- Current NSW driver's licence
- Knowledge of mechanical assets relevant to WNSW core asset base such as large industrial mechanical drive systems, pumps, pipeline assets, valves, industrial hydraulics and cranes
- Applied knowledge of relevant Australian and International codes and standards, good engineering practice and the applicable statutory requirements

7. MANDATORY EXPERIENCE AND CAPABILITY (PROVEN AND DEMONSTRATED)

- Minimum 5 years' experience in design, construction or maintenance in heavy industrial engineering or utility environments and exposure to asset management of mechanical equipment relevant to WNSW's asset fleet.
- Demonstrated experience building and maintaining relationships with individuals from other work groups working through potentially conflicting needs and objectives to accomplish shared goals and obtain agreement on actions and outcomes
- Experience in sourcing and using additional information to effectively diagnose problems and determine suitable solutions by recognising patterns and drawing linkages between data and/or situations and addressing the root cause of problems to prevent recurrences
- Excellent general computer literacy skills as well as specialist knowledge of discipline based applications and software.

8. EXPERIENCE OR QUALIFICATIONS THAT WILL BE VIEWED FAVOURABLY

- Experience with and knowledge pertaining to mechanical aspects of dams, spillway gates and irrigation regulating mechanisms
- Recent experience in the design and/or operation of hydro power turbines and plants
- Strong commercial acumen to identify benefits, opportunities and trade-offs to be made when formulating and executing business cases, project plans and contract negotiations

9. KEY CHALLENGES

- Consolidating existing asset knowledge resources and creating new resources where required, filling gaps, updating legacy documentation, maintaining their ongoing currency and developing a standardised approach across a diverse asset base implemented over a broad geographic footprint
- Managing and delivering a diverse and large workload, often with competing demands and limited resources
- Establishing productive and commercially viable relationships with external service providers to extend and complement WNSW's technical expertise within the mechanical engineering discipline

10. OTHER RELEVANT INFORMATION