**Delivering trusted water services for a sustainable and healthy South Australia**

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| Position Title | Condition Monitoring Officer | | |
| Position Number(s) | 261139/004889/007330 | Manager Title | Lead Condition Monitoring Engineer |
| Business Group | Sustainable Infrastructure | MoR Title | Manager Maintenance, Tactical Integrity & Reliability |
| Business Unit | Maintenance | Direct Report’s Title(s) | Not Applicable |

What is the unique purpose of the role?

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| Deliver specialist condition monitoring tactics including fault diagnostics, failure prognostics and predictive maintenance adapting smart technologies to ensure the achievement of optimal maintenance outcomes and enhance system reliability and performance. |

What does the role do?

The key accountabilities unique to this role are:

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| Key Accountabilities | Accountability Details |
| Contribute safety and team effectiveness | * Be aware of and apply roles and responsibilities in accordance with WHS roles and responsibilities procedure. * Take responsibility for the safety and wellbeing of yourself and others including your own fitness for work (e.g.under the influence of drugs, alcohol and/or fatigue). * Ensure all health and safety, water quality and environmental incidents and hazards are reported in line with corporate incident notification protocol including logging within incident management system and notify management. * Active participation in corporate WHS initiatives. * Collaborate effectively to ensure team goals are achieved by providing input into decision making and problem solving. * Actively contribute to team meetings and group discussions. * Actively contribute to create a culture of maintenance excellence. |
| Deliver condition monitoring engineering program | * Execute condition monitoring programs for both linear and non-linear assets in line with reliability and tactical engineering requirements. * Undertake vibration data collection and advanced waveform and spectrum analysis, Transient, thermography, alignment, dynamic balancing, Operating Deflection Shape (ODS) and Tribology. * Perform pump performance testing where required. * Utilise innovative condition monitoring technologies such as an Unmanned Aerial Vehicle (UAV) for condition assessment of above ground pipelines, solar and energy systems, buildings, and water storage facilities. * Provide proactive diagnostic services for fault finding and defect elimination of infrastructure assets and provide data and information to Reliability Engineers and Maintenance Execution teams. * Provide engineering and technical assistance with engineering analysis, troubleshooting, recommendations, and reporting within the level of expertise. * Execute reliability, tactical and integrity strategies that inform and enhance asset reliability and future investment decisions. |
| Embed condition monitoring standards | * Champion SA Water’s condition-based maintenance standards and guidelines. * Contribute to support the corporation to meet condition-based maintenance compliance requirements within statutory, regulation, industry code of practice, Australian and International standards. * Ensure condition monitoring services are delivered in accordance with SA Water standards, Australian Standards and relevant ISO and regulations. |
| Work management performance, innovation, and improvement | * Ensure condition monitoring activities are carried out according to plans and schedules. * Follow the work management discipline and practice to capture and report all condition monitoring data accurately per asset and within agreed timeframes. * Ensure compliance to call out/response time for emergency work. * Minimise of breakdowns and catastrophic failures by applying the right condition monitoring techniques. * Response times to reactive work (unplanned) is achieved. * Meet and/or exceed maintenance performance measures. * Timely delivery of maintenance and capital project works within budget, scope, and quality requirements. * Support to initiate and implement opportunities to improve performance, efficiency, and cost reduction. * Ensure that all relevant tools, materials, equipment, and vehicles are utilized and maintained appropriately. |
| Contribute to predictive and smart maintenance initiatives | * Contribute in initiatives to improve the maturity of maintenance and condition monitoring within the corporation. * Contribute to identify suitability of new, smart, and emerging reliability and condition monitoring techniques. * Keep up to date with industry best practice in all matters of reliability and condition monitoring engineering disciplines. |
| Deliver customer service excellence | * Encourage open communication between internal and external stakeholders and teams to ensure the best outcome. * Encourage to share condition monitoring knowledge and techniques to all stakeholders. * Maintain a high level of service that meets customers’ expectations. * Ensure customer issues are resolved in a timely manner. |

Knowledge, skills and experience the role requires

Criteria which will be used for recruitment and selection for this role:

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| Foundation Knowledge, Skills, Experience and Qualifications | Essential or Desirable |
| A mechanical or electrical engineering qualification or trade level qualification | Essential |
| Vibration Analyst Category II | Essential |
| Advanced Machinery Diagnostics including Operating Deflection Shape (ODS) and Transient | Essential |
| Infrared Thermography Analyst Level I | Essential |
| Good understanding of Tribology | Essential |
| Demonstrated ability to liaise with customers and communicate effectively both verbally and in writing | Essential |
| Ability to work under limited supervision | Essential |
| Remote pilot licence for Unmanned Aerial Vehicle (UAV) | Desirable |

Who you work with

Key Stakeholder Relationships criticalto the success of this role:

* Internal stakeholders including Maintenance Execution, Work Management Planning & Scheduling, Business Development and Growth, Integrity Engineers, Condition Monitoring, Capital Delivery, Asset Management, Engineering, Procurement, Finance, Customer Field Services and Production & Treatment
* Adelaide service delivery

Special conditions

Does the role have any unique requirements?

* Flexible hours and some after hours as required, some intra and interstate travel (mandatory)
* You will be required to undergo initial and subsequent clearance checks to ensure your ongoing suitability for the role. These may include a criminal police check, traffic check, Working with Children and/or Working with Vulnerable People. (mandatory)
* You will be required to undergo initial and subsequent medical clearances and immunisations to ensure your safety in performing the inherent requirements of your role, including but not limited to: Covid-19, Hepatitis A/B, Q Fever and Flu. (mandatory)
* You will be required to hold a current driver’s licence at all times
* You will be required to work in remote and isolated locations
* Participation in and response to an on-call roster will be required

**Your PD outlines what the requirements of your role are. The behaviours you demonstrate are equally as important and form part of your PD.**

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