**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.
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| 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.
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| 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.
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| 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.
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| 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.
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| 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.
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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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