



POSITION DESCRIPTION

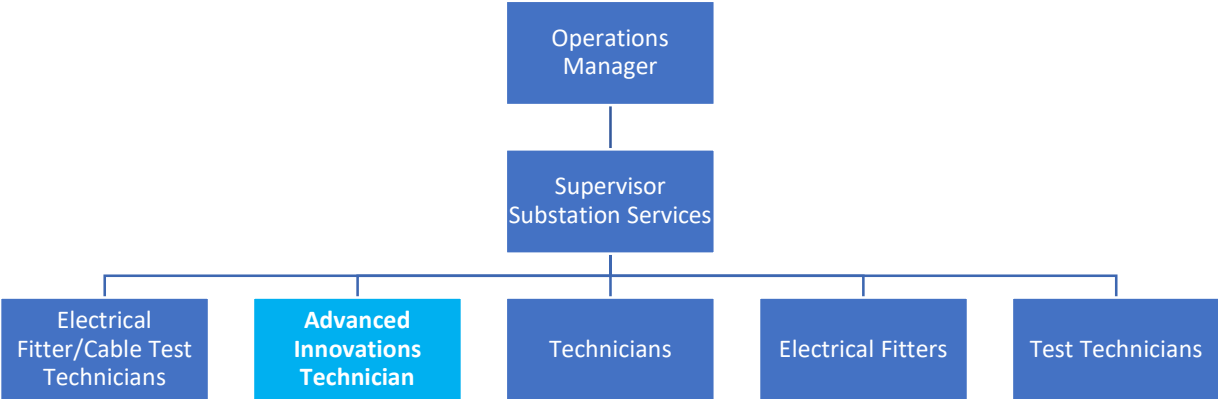


Position title:	Advanced Innovations Technician		
Reports to:	Supervisor Substation Services		
Group:	WEL Services	Unit:	Maintenance Services
Revision (m/y):	12/2024	Date:	12 December 2024

Purpose

To reinforce the collaboration between field services and network management by integrating the latest field technologies with engineering design, accelerating our pace on network visibility and flexibility management.

Reporting Structure



Performance Outputs

Key Result Areas (What/Result)	Key Tasks / Activities (How)	Performance Measures (Quantity, Quality, Time, Cost)
Smart metering mesh radio network	<ul style="list-style-type: none"> • Work with the Asset Management team to design, build and operate the WEL smart metering mesh radio network. 	<ul style="list-style-type: none"> • The mesh radio network is optimised
DER's and IoT devices	<ul style="list-style-type: none"> • Install devices on the electricity network to enable non-network solutions to manage network capacity and supply quality issues, using network flexibility. • Distributed energy resource (DER) integration with network operation functions 	<ul style="list-style-type: none"> • Improvements to capacity and supply • Network operation functions integrated with DER
Data analytic outputs	<ul style="list-style-type: none"> • Work closely with the Asset Management team to verify the accuracy of the new data analytic outputs, undertake field investigations on network defects, connectivity issues and apply corrections. 	<ul style="list-style-type: none"> • Accuracy of data outputs • Solutions identified and corrections undertaken
Equipment installation and repair	<p>Develop methodology and provide assistance on the installation and repair of equipment including new technology and future developments in:</p> <ul style="list-style-type: none"> • Cable commissioning and fault finding. • Cable maintenance condition monitoring. • Primary testing on zone sub transformers. • Primary and secondary testing on field devices. 	<ul style="list-style-type: none"> • The installation process aligns with current technological standards and best practice

	<ul style="list-style-type: none"> • “AI” innovation and inspecting assets on the WEL network. • EV equipment • BESS equipment • Satellite technology. • Human centered design. 	
<p>Network delivery and improvement opportunities</p>	<ul style="list-style-type: none"> • Construction and maintenance of the LV/HV network. • Research appropriate future technology and methods, including SCADA control. • Looking at testing and commissioning of electrical equipment and new technologies. • Incorporation improvements of battery technology into the grid. • Network Automation • Embedded Generation (BESS/PV/EV/DG). 	<ul style="list-style-type: none"> • Optimal network performance • New technologies and improvements identified
<p>To contribute/recommend and present case studies to improve processes and control on the network</p>	<ul style="list-style-type: none"> • Maintain and fault-find on WEL HV and LV Network • Use technology and methods, including SCADA/protection control • Use of instrumentation and diagnosing the results • Machine learning & AI • Network Automation. 	<ul style="list-style-type: none"> •
<p>To contribute to the continuous improvement of asset management</p>	<ul style="list-style-type: none"> • While contributing to the WEL Strategy and the design, planning, installation, maintenance, operation, servicing, renewal, and disposal of WEL’s permanently 	<ul style="list-style-type: none"> • Maintain Comprehensive Records: Document every phase of the installation process, including planning, execution, testing, and feedback

	<p>connected Network Assets and Network Management Systems:</p> <ul style="list-style-type: none"> ○ Participate in Asset Management activities that align to the Asset Management Policy ○ Contribute to the achievement of WEL's Asset Management Objectives (as detailed in the Strategic Asset Management Plan (SAMP)) ● Support Asset Management assurance initiatives 	<p>collection. This creates a clear trail of evidence supporting objectives and outcomes</p> <ul style="list-style-type: none"> ● Outcome Reporting: After installation, compile a report that compares achieved outcomes against the original objectives, highlighting successes and areas for improvement ● WEL demonstrates excellence in asset management through retention of ISO 55001 Asset Management Standard certification
<p>To contribute to overall performance and development of the unit</p>	<ul style="list-style-type: none"> ● Plan and co-ordinate site activities ● Maintain and operate company vehicles, materials and plant ● Liaise with other utilities/ authorities ● Work with and instruct Trainees ● Assist in training activities 	<ul style="list-style-type: none"> ● Compliance with policies and procedures ● Progress and development of trainees ● Assessment and Testing: Implement assessments or practical tests after training to evaluate technicians' understanding and ability to apply new methods ● Feedback Loop: Encourage technicians to provide feedback on the training process and content, allowing for continuous improvement
<p>To participate and contribute to projects</p>	<ul style="list-style-type: none"> ● Undertake special projects for WEL when required ● Undertake continuous improvement projects as and when required 	<ul style="list-style-type: none"> ● Achievement of agreed project measures

Targeting “Best in Safety”	<ul style="list-style-type: none"> • Promotion of good safety management practices. • Participation in safety and wellness activities • Being a safety leader 	<ul style="list-style-type: none"> • WEL’s health and safety policies and procedures are adhered to at all times
To work in and promote a ‘Best in Service’ attitude to all endeavours	<ul style="list-style-type: none"> • Engage within the business and with community / external stakeholders in a way that supports ‘Best in Service’, always 	<ul style="list-style-type: none"> • WEL’s reputation is enhanced in the community • You are known for your excellent customer service

This position description is intended as an insight to the main tasks and responsibilities required in the role and is not intended to be exhaustive. It may be subject to change, in consultation with the job holder.



Person Specification

Qualifications	Essential	<ul style="list-style-type: none"> Registered Electrician or Protection Technician with a Technical Certificate or equivalent.
	Desirable	<ul style="list-style-type: none"> BEng or related tertiary degree. Level 5 power technician qualification.
Experience	Essential	<ul style="list-style-type: none"> A minimum of 3 years post qualifying experience in the electrical distribution industry. a good understanding of protection systems, communication systems, experience in operating and installing MV switchgear transformers, control and protection and other network related technologies.
	Desirable	<ul style="list-style-type: none"> Knowledge of WEL's network. Automation experience SCADA/Communications experience in the utility industry
Role Specific Competencies	<ul style="list-style-type: none"> Integrity: Demonstrates consistently high integrity, professionalism, and business ethics. Teamwork: Works co-operatively as part of the team. Actively seeks out and listens to the views and ideas of others. Shares information and knowledge freely. Safety focus: Is invested in the safety and wellbeing of themselves and those around them. Builds safety into process design and practice. Collaboration: Works with peers and others across the business to achieve win-win results, and drives behaviour to optimise business outcomes rather than department outcomes. Problem Solving / Critical thinking: Analyses issues and breaks them down into their component parts. Able to gather a wide range of information, comprehend and make systematic and rational judgments based on relevant information. Communication: Speaks clearly, fluently and in a compelling manner to both individuals and groups. Writes in a clear and concise manner, using appropriate grammar, style and language for the reader. Negotiation: Listens, comprehends, and empathises with parties to develop relationships and rapport with others. 	

	<ul style="list-style-type: none">• Technical ability: Provides high quality analysis, processes and developments using the tools provided.• Planning and Organising: Organises and schedules activities and resources efficiently.• Customer focus: Dedicated to providing a prompt, efficient and personalised service to clients (internal/external) and works hard to ensure that individual client needs are met.• Quality Orientation: Has a very high attention to detail. Shows awareness of goals and standards. Follows through to ensure that quality and productivity standards are met.
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Our Purpose

Enabling our *communities to thrive*

Our Vision

To create and support an *innovative and sustainable energy future*

Best in Service

So we have the *trust of our community*



Best in Safety

Every Day - *Home Safe*



Our Values



Agile

We listen to ideas, we explore opportunities and we adapt to changing situations with an open mind. When change is needed we make sure we understand why and we make it work. We're flexible and we respond professionally to change.



Build the business

We make sure our day to day activity is sound while exploring ways to improve the way we work or things we do. We often ask "is there a better way to do this?" and we investigate options.



Care for each other, the customer and our assets

We work as a team across the business to do things the right way. We treat others with respect, listening to their needs so we can deliver a reliable and safe service to our communities.



Do the right thing

We make decisions with integrity and when we can, we help others make the right decision for their situation. We're open, honest and trustworthy. We speak up if we feel we should and we listen to others.



Every Day - Home Safe

We lead by example to keep ourselves, our workmates and our communities safe. We use the right equipment, we challenge unsafe acts and we say no if we think it's not safe.