

# Role Description

## (TGO3)



**Role Title:** Principal Electronics Officer

**Classification Level:** TGO3

**Division:** Strategy, Science and Corporate Services

**Branch/Region/Unit:** Science, Information and Technology Branch/ Water Resource Monitoring Unit

**CHRIS Position Number:** New

**Reports to (Title):** Technical Leader, Technology support

### Our Organisation

The Department for Environment and Water (DEW) is committed to providing a highly supportive work environment that values the participation and contribution of every employee in shaping the future of the department. DEW is a high performing organisation that encourages excellence, improvement and growth at both an organisational and individual level. DEW has a flexible approach to doing business and is committed to ensuring our people have flexibility around the number of hours worked, scheduling of hours and location of work. Everything we do is underpinned by our core values and consequently we value and respect our people; we encourage active participation and leadership; we continuously seek to be better and we achieve results.

### Purpose

The Strategy Science and Corporate Services Division coordinates and supports major strategy and policy development for the Department. The Division provides centralised corporate, communications and engagement and science support services. Expert advice is provided to inform community discussion and our science is evidence-based. IT, business systems and information management are integrated to support the effective capture, management and access to agency data and information for the agency.

### About the Branch/Business Unit

The Science, Information and Technology Branch delivers consistent and reliable science to enable evidence-based decision making, and sustainable and innovative business systems technology and information.

The Water Resource Monitoring Unit (WRMU) provides leadership in the monitoring of the State's water resources through the management, operation and maintenance of the State's monitoring networks to support water resource management objectives and development. The unit ensures validated water monitoring data is entered into the state water databases and supports the management of the databases.

### About the Role

The Principal Electronics Officer is responsible, under limited direction, for the provision of electronic and technical support and advice to assist the WRMU, DEW and Landscape Boards in the collection of valid water data and field telecommunication into DEW's data management systems. This role works individually or as part of a multidisciplinary team to design, assemble, install and maintain electronic components for water monitoring, monitoring platforms and data communications systems comprising of a variety of electronic instruments and associated modules. The incumbent will also be required at times to lead projects relating to the work of the unit and maintain the instrument database and other systems managed by the unit.

### Key Role Outcomes

- Specialist electronic equipment is calibrated, installed and maintained in accordance with relevant department and industry standards, practices and procedures.
- Emerging technology is investigated and equipment evaluated and selected from the marketplace to best fit varying applications required by the Department.
- Specialist data logger programming or code and data communication systems is developed and maintained to enable integration with other critical services and new monitoring platforms as they develop.
- Lead and collaborate with all stakeholders to enable water resource electronics and asset maintenance projects to be delivered on time.
- Technical procedures are maintained to relevant standards to ensure high quality collection of water data and transfer to appropriate information systems.

## Key Relationships

- Reports to the Manager Monitoring Operations through the Technical Leader, Assets and Technology Support
- Liaises with a variety of technical and professional staff within the Water Resource Monitoring and Water Science Units
- Liaises with external clients as directed or within the designated project scope
- Maintains close working relationships with other officers of the Department and external stakeholders

## Special Conditions

- May be required to participate in fire management and associated duties
- Current class "C" driver's licence and willingness and ability to safely operate a 4wd is essential
- Inter and intrastate and remote area travel is required, including travel in light aircraft
- Demonstrates ability to work alone and be self-reliant
- Apply First Aid Certificate or equivalent
- Must be a competent swimmer
- This role has been designated as a Position of Trust pursuant to the standards required in the Australian Government Protective Security Policy Framework. By applying for this role you consent to being screened under the process of obtaining a National Police Clearance (NPC), and to the Department requiring you to obtain a National Police Clearance (NPC).

Core Competencies	Elements	Behavioural Indicators
<b>Shapes Strategic Thinking and changes</b>	<ul style="list-style-type: none"><li>• Thinking and acting strategically</li><li>• Leading and influencing change</li></ul>	<ul style="list-style-type: none"><li>• Remains focused on achieving outcomes despite the emergence of unexpected or unplanned pressures.</li><li>• Raises potential options for consideration arising from research analysis.</li><li>• Is comfortable in integrating changes within own area of responsibility.</li></ul>
<b>Achieves Results</b>	<ul style="list-style-type: none"><li>• Delivering effective outcomes</li><li>• Assuming accountability</li><li>• Making decisions</li></ul>	<ul style="list-style-type: none"><li>• Works with key stakeholders to problem solve and overcome challenges, and facilitates the achievement of outcomes.</li><li>• Willingly accepts responsibility for own work.</li><li>• Makes timely decisions for their area of responsibility.</li></ul>
<b>Drives Business Excellence</b>	<ul style="list-style-type: none"><li>• Facilitating quality and continuous improvement</li></ul>	<ul style="list-style-type: none"><li>• Monitors and questions the effectiveness of existing practices within the team.</li><li>• Keeps abreast of developments within the directorate/Agency and makes sure that this knowledge is shared across the team.</li></ul>
<b>Forges Relationships and Engages Others</b>	<ul style="list-style-type: none"><li>• Influencing and negotiation</li></ul>	<ul style="list-style-type: none"><li>• Effectively gains buy-in across a range of levels internally – upwards, sideways and downwards – and achieve positive outcomes.</li><li>• Listens to others and acknowledges their views.</li><li>• Builds a strong network of influential contacts across the Agency that is used as a source of information and advice.</li></ul>
<b>Exemplifies Personal Drive and Professionalism</b>	<ul style="list-style-type: none"><li>• Displaying flexibility and resilience</li></ul>	<ul style="list-style-type: none"><li>• Is flexible in handling changing priorities.</li><li>• Quickly regains focus in the face of unexpected setbacks.</li><li>• Adapts to new situations while maintaining achievement of outcomes.</li></ul>

## Technical, Professional/Knowledge and Experience (including qualifications)

- A degree or diploma qualification in electronics or related field is essential.
- Demonstrated experience of electronics techniques and practices required to design, select, install and maintain hydrological monitoring instruments.
- Demonstrated experience working with computers and developing and maintaining a range of software related to data loggers and SCADA systems (e.g., Perl scripts, C++ or Python scripts).
- Knowledge of and experience in safe work practices for varied hydrological and electronic related duties including working in remote and isolated areas.

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## Work Health and Safety

- Leads and participates in health and safety discussions in the workplace.
- Identifies hazards, assesses risks and implements procedures for controlling risks.
- Implements procedures for dealing with incidents and emergency events.
- Maintains appropriate workplace safety records.

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## Corporate Responsibilities

- Demonstrate appropriate and professional workplace behaviours that are in line with the Code of Ethics for the South Australian Public Sector.
- Maintain a commitment to EEO, Diversity, Ethical Conduct, and record keeping within legislative requirements, according to the principles of the Public Sector Act 2009.
- Actively participate in the Department's Performance Development and Review Program.
- Demonstrate appropriate and professional workplace behaviours that align closely with the White Ribbon message.

DEW Branch:	Science Information and Technology	Date approved:	07 June 2020
DEW Division:	Strategy Science and Corporate Services Division	Classified:	Yes