# Position Details

## Technical Services - CSOF3

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| The following information is for applicants |
| Advertised Job Title | Scientific Instrumentation Engineer/Technician - Seagoing |
| Job Reference | 86076 |
| Tenure | Indefinite - Full-time |
| Salary Range | AU$66k - AU$84k per annum, plus up to 15.4% superannuation |
| Location(s) | Hobart, Tasmania |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | Australian/New Zealand Citizens and Australian Permanent Residents |
| Position reports to the | Team Leader – Seagoing Instrumentation |
| Client Focus – Internal | 100% |
| Client Focus – External | 0% |
| Number of Direct Reports | 0 |
| Enquire about this job | Trevor Goodwin via email: Trevor.Goodwin@csiro.au  |
| How to apply | Apply online at <https://jobs.csiro.au/> Internal applicants please apply via **Jobs Central**If you experience difficulties when applying, please email careers.online@csiro.au or call 1300 984 220. |

**Acknowledgement of Country**

CSIRO acknowledges the Traditional Owners of the land, sea and waters, of the areas that we live and work on across Australia. We acknowledge their continuing connection to their culture and pay our respects to their Elders past and present. View our [vision towards reconciliation](https://www.csiro.au/en/about/Indigenous-engagement/Reconciliation-Action-Plan).

### Role Overview

The role of Technical Services staff in CSIRO is to provide support for scientific research in a diverse range of laboratory and field situations across a range of different research projects. The **Scientific Instrumentation Engineer/Technician – Seagoing** will work at sea aboard the CSIRO Marine National Facility research vessel, the RV Investigator. The primary focus will be on contributing to successful research voyages and delivering scientific outcomes for the Marine National Facility and its clients, by operating and maintaining scientific equipment on the research vessel and ashore.

### Duties and Key Result Areas

* Participate in research voyages and contribute to the achievement of research objectives by operating scientific equipment, performing maintenance and repair of instrumentation, and reporting on equipment performance and status.
* Contribute to the smooth and orderly running of electronics and instrumentation support on the vessel in areas such as:
	+ Service of equipment and tools
	+ Maintenance of parts inventory
	+ Preparation and dispatch of equipment to vessels
	+ Documentation
* Install, service and repair electronic equipment and instrumentation.
* Design, develop and configure new electronics and instrumentation systems including installation and commission of systems onboard vessels.
* Comply with organisational requirements, including but not limited to procedures around travel, reporting, HSE, and general administrative responsibilities.
* Respond courteously and efficiently to client requests, maintain clear communication regarding mutual expectations and monitor client satisfaction.
* Work collaboratively as part of a multi-disciplinary team to carry out tasks in support of CSIRO scientific objectives.
* Communicate openly, effectively and respectfully with staff, clients, ship’s crew and suppliers in the interests of good business practice, collaboration, and enhancement of CSIRO’s reputation.
* Adhere to the spirit and practice of CSIRO’s Code of Conduct, Health, Safety and Environment plans and policies, Diversity initiatives and Zero Harm goals.
* Other duties as directed.

## **Selection Criteria**

#### Essential

*Under CSIRO policy only those who meet all essential criteria can be appointed.*

1. A minimum of a Diploma in Engineering with a focus on electronics, communications, or instrumentation
2. An understanding of electronic, analogue and digital circuitry, and how they interface with external sensors and devices, with demonstrated experience installing and servicing electronic and scientific instrumentation.
3. Proven ability to fault-find and problem-solve routine or unusual repair and maintenance problems of electronic circuits, scientific instrumentation, computers, and network systems.
4. Demonstrated efficiency in approaching organisation and prioritisation of concurrent tasks to meet deadlines, the ability to maintain a calm temperament under pressure, and a willingness to take on non-routine tasks where this will contribute to research voyage objectives.
5. Demonstrated mechanical aptitude with the ability to undertake fabrication, repairs and maintenance using hand tools and/or machinery.
6. Proven interpersonal abilities, with experience working effectively within and across teams.
7. Proven ability to communicate in a courteous and respectful manner, both orally and in writing, and to produce documentation and reports using standard office packages.

## **Desirable**

1. The ability to carry out software development or maintenance using languages such as Python, C/C++, etc.
2. An understanding of design packages, for electronic circuit and PCB design; and/or CAD design drawing packages.
3. Relevant workplace training – restricted electrical licence, WSAH, forklift, ESS/BOSIET/STCW.

## **Required Competencies**

* **Teamwork and Collaboration:** Proactively seeks and considers the ideas and opinions of others from within and outside the team to help form decisions, plans or actions.
* **Influence and Communication:** Puts forward ideas by presenting factual information supported by data, definitions, examples, illustrations or other aids, which will assist in conveying meaning.
* **Resource Management/Leadership:** Provides instruction and assists other staff to complete allocated tasks and activities.
* **Judgement and Problem Solving:** Identifies and considers the implications of a range of available alternatives in order to select the most appropriate response to problems of a familiar or recurring nature.
* **Independence:** Recognise and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).
* **Adaptability:**Willingness to change ideas or perceptions based on new information, contrary evidence or other people's points of view. Prepared to try out different approaches.

Special Requirements

* The successful candidate will be asked to obtain and provide evidence of a National Police Clearance or equivalent. Please note that individuals with criminal records are not automatically deemed ineligible. Each application will be considered on its merits.
* Appointment to this role will be conditional on the candidate passing a stringent Remote Area Seagoing Medical, and the ability to obtain a Maritime Security Identification Card.
* The appointee will be prepared to be based at sea on a research vessel for 12h shifts, 7 days per week, for up to 85 days per year, with minimal supervision after adequate training.

## **About CSIRO**

We solve the greatest challenges through innovative science and technology. Visit [CSIRO Online](http://www.csiro.au/) and [National Research Collections Australia](https://www.csiro.au/en/about/facilities-collections/Collections) for more information.

CSIRO is a values-based organisation.  In your application and at interview you will need to demonstrate behaviours aligned to our values of:

* People First
* Further Together
* Making it Real
* Trusted