# Position Description

*Electronics Engineer*

## Technical Services – CSOF4

The following information is for applicants

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| Advertised Job Title**:** | Electronics Engineer |
| Job Reference: | 59215 |
| Relocation Assistance**:** | Will be provided to the successful candidate if required. |
| Applications Are Open To: | Australian Citizens Only  Australian/New Zealand Citizens and Australian Permanent Residents Only   * All Candidates |
| Percentage of Client Focus - Internal: | 75% |
| Percentage of Client Focus - External: | 25% |
| Reports to the: | Team Leader - Systems Engineering |
| Number of Direct Reports: | 0 |
| Name and Contact Details For Applicant Enquiries: | Jacques Malan – 03 6232 5267 ([Jacques.Malan@csiro.au](mailto:Jacques.Malan@csiro.au)) |
| Contact Details For Applying: | Call 1300 984 220 or email [careers.online@csiro.au](mailto:careers.online@csiro.au). |
| How to Apply: | Please apply online at [jobs.csiro.au](https://jobs.csiro.au/) and enter the requisition number**.** Internal applicants please apply via ‘Jobs Central’ through the ‘People Hub’ icon |

## Role Overview:

The role of Technical 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. This support consists of the application of accepted technical practices and the development of new practices. The work is usually carried out as a member of a centralised service.

The position of Electronics Engineer will require work across a range of diverse projects with significant design challenges presented by the extreme marine and atmospheric environment in which we work. The Engineer will work in small integrated teams to develop novel technical solutions which provide observation and measurement capability to science researchers and external clients. The Engineer will engage with various clients to understand their science needs and to develop real world technical solutions in the absence of existing market available products. The position will also require field work which can span short day trips to longer overnight voyages on research and commercial seagoing vessels.

## Duties and Key Result Areas:

* Liaise with clients to determine their system requirements and take personal responsibility for their satisfaction, as well as the prompt correction and communication of problems in a constructive manner.
* Develop original techniques, processes, equipment or software, especially when encountering new problems where methods are not defined and initiative is required in seeking new approaches to improve the service provided and to meet client needs.
* Design and build new electronics and instrumentation systems to deliver next generation solutions for marine science.
* Develop embedded firmware and application software for the operation and control of instruments.
* Participate in research voyages to meet science objectives through the commissioning, operation, maintenance and repair of instrumentation.
* Manage the calibration and modification of electronic equipment and instrument systems.
* Procure, configure and setup new electronics and instrumentation platforms for use on different vessels.
* Utilise management expertise including the ability to plan, organise and monitor the budgets and delivery of projects.
* Communicate openly, effectively and respectfully with all staff, clients and suppliers in the interests of good business practice, collaboration and enhancement of CSIRO’s reputation.
* Work collaboratively as part of a multi-disciplinary, often regionally dispersed research team, and business unit to carry out tasks in support of CSIRO scientific objectives.
* 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.

## CSIRO Competencies:

1. **Teamwork and Collaboration: Cooperates with others to achieve organisational objectives and may share team resources in order to do this. Collaborates with other teams as well as industry colleagues.**
2. **Influence and Communication: Uses knowledge of other party's priorities and adapts presentations or discussions to appeal to the interests and level of the audience. Anticipates and prepares for others reactions.**
3. **Resource Management/Leadership: Allocates activities, directs tasks and manages resources to meet objectives. Provides coaching and on the job training, recognises and supports staff achievements and fosters open communication in the team.**
4. **Judgement and Problem Solving:** Investigates underlying issues of complex and ill-defined problems and develops appropriate response by adapting/creating and testing alternative solutions.
5. **Independence: Recognise and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).**
6. **Adaptability:** Copes with ambiguity or situations that lack clarity. Adapts readily to changing circumstances and new responsibilities (which may include activities outside own preferences) in the interests of achieving team objectives. Recognises the need for and undertakes personal development as a result of changes.

## Selection Criteria:

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

1. *Bachelor degree in Electrical Engineering, or equivalent experience*
2. *Extensive knowledge of electronics and instrumentation*
3. *Demonstrated experience in the board level design of electronic systems using recognized industry standard CAD packages (Altium Designer or similar)*
4. *Previous experience producing robust embedded firmware for microcontrollers*
5. *Background in coding software applications using higher level languages for control, data acquisition and data analysis.*

## Desirable Criteria:

1. *Demonstrated experience undertaking field work, working at sea, or in small boats.*
2. *Relevant industry experience for a period of two to five years.*
3. *Strong practical skills in construction, troubleshooting and repairing of mechanical systems.*
4. *Experience in using mechanical CAD design packages to model and demonstrate concepts and to produce drawings for conventional or 3D print manufacture.*

## Special Requirements:

The successful applicant for this position will be required to undertake and pass a Seagoing Medical to demonstrate they have no underlying medical conditions which would pose a risk to their wellbeing for deployment at sea.

## About CSIRO:

We imagine. We collaborate. We innovate. To find out more visit us [online](http://www.csiro.au/)!

Find out more about CSIRO [Oceans and Atmosphere](https://www.csiro.au/en/Research/OandA)