# Position Details

## Technical Services- CSOF6

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| The following information is for applicants |
| Advertised Job Title | Technical Services Officer – Moorings Engineer |
| Job Reference | 69548 |
| Tenure | Indefinite Full-time  |
| Salary Range | AU$113 338 to AU$132 811 pa (pro-rata for part-time) + 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 citizens and Australian Permanent Residents
* NZ citizens usually resident in Australia
 |
| Position reports to the | Group Leader or Team Leader |
| Client Focus – Internal | 50% |
| Client Focus – External | 50% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Andrew Martini via email at andrew.martini@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. |

### 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. 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.

### This role is part of the Engineering and Technology program in the National Collections & Marine Infrastructure business unit (formerly within Oceans & Atmosphere). This program delivers an extensive portfolio of science-enabling capabilities largely in the marine domain, including:

### • Creation of next generation marine and atmospheric science sensors;

### • Design and delivery of oceanographic moorings;

### • Science engineering fabrication;

### • Autonomous marine platforms;

### • Delivery of science on blue-water research vessels;

### • Data acquisition and management.

### The program comprises mechanical and electronics engineers and technicians, scientific programmers, database specialists, marine geophysicists, hydrographers, metrologists and analytical chemists. These capabilities are managed in a team and group structure that allows vertically integrated project teams to be assembled to address large problems.

The Technical Services Officer – Moorings Engineer position will play a key role between the science and technical teams to translate all science requests into a fully functional mooring system from both an instrumentation and mechanical perspective.

### Duties and Key Result Areas

* Design and develop new mooring systems for key stakeholders within and outside CSIRO including configuring instrumentation and mechanical componentry to successfully deliver whole of system solutions.
* Solve marine technology problems through the use of specialist expertise and make innovative contributions to the development of techniques or processes with a significant impact on research.
* Lead the strategic research component of large and significant marine technology projects, contribute original ideas and concepts and determine the most appropriate strategies.
* Contribute to high quality scientific and/or engineering papers suitable for publication in quality journals and for presentation at national and international conferences.
* Gain support of influential clients for the goals of the facility, which may involve securing external funds.
* Get to know the client’s business, negotiate work requirements with clients, and be instrumental in ensuring that their needs are met.
* Act as a trusted advisor and demonstrate creativity in determining and anticipating client needs.
* Identify and adapt quickly to changes in client's needs and market changes.
* Lead project staff (possibly representing a range of disciplines) and manage resources.
* Direct and coordinate the completion of complex technical projects and undertake the development, implementation or standardisation of procedures and techniques.
* Within broad guidelines, develop strategic and operational plans for the service, having significant independence of action.
* Proactively take a leading role in the effective transfer of new technology to industry/community.
* Represent the organisation on external forums and establish and lead technical forums as required.
* Maintain confidentiality when dealing with commercially sensitive information.
* 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, 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 procedures and policy, Diversity initiatives and Making Safety Personal goals.
* Other duties as directed.

## **Required Competencies**

* **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.
* **Influence and Communication:** Identifies critical stakeholders and influences them via an influential third party, for example through an established network, to gain support for sometimes contentious, proposals/ideas.
* **Resource Management/Leadership:** Provides leadership that fosters an environment that encourages new ideas and provides support for the development of emerging skills. Creates trust by displaying consistency, understanding, integrity and patience. Plans, seeks, allocates and monitors resources to achieve outcomes.
* **Judgement and Problem Solving:** Anticipates and manages problems in ambiguous situations. Develops and selects an appropriate course of action and provides for contingencies. Evaluates, interprets and integrates complex bodies of information and draws logical conclusions, synthesises proposals and defends options with reasoned arguments.
* **Independence:** Assesses the risk and opportunity of identified strategies, options and actions. Overcomes problems and setbacks in achieving goals. Invariably includes consideration of value-added future impact on bottom line when determining the optimal and efficient use of resources.
* **Adaptability:**Demonstrates flexibility in thinking and adapts to and manages the increasing rate of organisational change by adjusting strategies, goals and priorities.

## **Selection Criteria**

#### Essential

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

1. A BEng in mechanical, electronics or related engineering subject or equivalent relevant work experience.
2. Demonstrated ability to configure instrumentation and mechanical componentry to deliver whole of system solutions for new mooring systems.
3. Demonstrated sound technical knowledge and the ability to deliver large, complex technical projects in the marine science and technology domain using an appropriate mix of innovative and standard methodologies.
4. Demonstrated ability to lead technical teams and develop and mentor staff.
5. Proven ability to engage with potential clients to understand their technical issues, frame potential solutions and develop funded collaborative projects.
6. The ability to work effectively as an integral member of a multi-disciplinary, regionally dispersed research team, and foster an environment in which there is a high level of co-operation within and between teams.
7. A record of making innovative contributions to developing techniques or processes that have a significant impact on research.

## **Desirable**

1. Extensive history and track record working with collaborators and peers developing and applying marine science technology, both within Australia and internationally.
2. Experience working at sea on research vessels.
3. Experience working within systems engineering frameworks.
4. Experience in the design of marine structures using time domain finite element analysis.
5. Understanding of current marine science sensing technologies.

Special Requirements

Appointment to this role may be subject to conditions including provision of a national police check as well as other security/medical/character clearance requirements.

* The successful candidate will be asked to obtain and provide evidence of a National Police Check or equivalent. Please note that people with criminal records are not automatically deemed ineligible. Each application will be considered on its merits.

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Find out more about CSIRO [Marine National Facility](https://www.csiro.au/en/Research/Facilities/MNF)