# Position Details

## Technical Services- CSOF4

|  |  |
| --- | --- |
| The following information is for applicants | |
| Advertised Job Title | Mechanical Engineer |
| Job Reference | 73863 |
| Tenure | Indefinite, full-time |
| Salary Range | AU$85,361 - AU$96,573 pa (pro-rata for part-time) + plus up to 15.4% superannuation |
| Location(s) | Hobart, TAS |
| Relocation Assistance | Will be provided to the successful candidate if required. |
| Applications are open to | Australian and New Zealand Citizens and Australian Permanent Residents currently residing in Australia |
| Position reports to the | Team Leader – Engineered Systems |
| Client Focus – Internal | 90% |
| Client Focus – External | 10% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Jacques Malan via email [Jacques.Malan@csiro.au](mailto:Jacques.Malan@csiro.au)  or phone 03 6232 5267 |
| 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](mailto:careers.online@csiro.au) or call 1300 984 220. |

### Role Overview

This role is in the Engineering and Technology Program of the National Collections and Marine Infrastructure (NCMI) Business Unit and will focus on the design of mechanical systems to support science within the Business Unit and CSIRO.

The Mechanical Engineer is responsible for the development of solutions for a wide variety of ocean and atmospheric observing systems to meet science needs. This will primarily involve the design of mechanical systems and the role will have responsibility at all stages of the design process, from project definition to project completion. Where appropriate, the Mechanical Engineer will manage projects, ensuring on-time and on-budget delivery of unique science tools. Managing specifications and reconciling their change against project delivery will also be a part of this role.

The team consists of exceptionally talented multidisciplinary engineers and technicians. The Mechanical Engineer will be expected to solve design problems and challenges that are on the borders of the possible, developing solutions for deployment in some of the harshest conditions on the planet.

### Duties and Key Result Areas

* Develop achievable engineering solutions to the science driven design & build projects in the areas of Mechanical, Structural and Ocean Engineering.
* Provide project management for design & build projects as required.
* Undertake a variety of tasks and solve problems with a high degree of technical difficulty.
* Liaise with clients to determine needs and improve service, taking responsibility for solving problems in a timely manner to ensure client satisfaction.
* Plan, organise and monitor the allocation of resources and participate in project planning with responsibility for major aspects of the project.
* Analyse and interpret data, and communicate results including authoring of papers, reports and research presentations.
* 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 to carry out tasks in support of CSIRO scientific objectives.
* Adhere to the spirit and practice of CSIRO’s Values, Code of Conduct, Health, Safety and Environment procedures and policy, Diversity initiatives and Making Safety Personal goals.
* Other duties as required.

## **Selection Criteria**

**Essential Criteria:**

*Please note: Under CSIRO policy only applicants who meet all the essential criteria can be appointed*

1. Bachelor of Engineering with substantial experience as a mechanical engineer or equivalent relevant work experience.
2. Exceptional project management skills, including ability to manage and deliver projects, particularly those of increasing complexity due to size and/or conflicting delivery criteria.
3. Demonstrated capacity to solve complex engineering problems encountered during the design and build of mechanical systems.
4. Demonstrated capability to produce engineering drawings using industry standard 3D design packages and analyses from FE tools demonstrating fundamental structural mechanics principles.
5. Ability to manage resources, direct activities and allocate tasks to meet objectives in a timely manner.
6. Ability to manage ambiguity and adapt to changing circumstances and responsibilities.
7. Clear and accurate written and oral communication skills whilst being sensitive to the interests and priorities of stakeholders.
8. Ability to work in teams to achieve objectives and to collaborate with other teams and industry partners.

## **Desirable**

1. Experience in the design of marine and subsea systems.
2. Experience with Matlab, Python or similar programming software.
3. Experience in the design of Remotely Operated Vehicles or Autonomous systems.
4. Experience in hydraulic and/or pneumatic systems.
5. Basic knowledge of electronics.

## **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:** 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.

**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.

**Judgement and Problem Solving:** Investigates underlying issues of complex and ill-defined problems and develops appropriate response by adapting/creating and testing alternative solutions.

**Independence:** Recognises and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).

**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.

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.

The successful candidate will be required to undertake and pass a Seagoing Medical.

This role will require the successful candidate to be willing and able to work at sea for multi-day field trips when necessary.

## **About CSIRO**

We solve the greatest challenges through innovative science and technology. To find out more visit us [online](http://www.csiro.au/)!

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

* 1. People First
  2. Further Together
  3. Making it Real
  4. Trusted