# Position Description

## Technical Services – CSOF4

The following information is for applicants

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| Advertised Job Title**:** | Marine Geophysicist |
| Job Reference: | 61355 |
| Relocation Assistance**:** | Will be provided to the successful candidate if required. |
| Applications Are Open To: | * All Candidates |
| Percentage of Client Focus - Internal: | 90% |
| Percentage of Client Focus - External: | 10% |
| Reports to the: | Team Leader – Geophysics, Survey and Mapping |
| Number of Direct Reports: | 0 |
| 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 |
| Contact details to discuss this position: | Stuart Edwards via email stuart.edwards@csiro.au or phone: 03 6232 5440  Please do not email your application directly to Stuart Edwards. Applications received via this method will not be considered. |
| If you have difficulty applying please contact: | Call 1300 984 220 or email [csiro.online@csiro.au](mailto:careers.online@csiro.au) between 8.30 am and 5 pm Australian east coast time. |

## 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 Marine Geophysicist will work in a diverse team providing scientific support on the RV Investigator, undertaking survey planning, acquisition, processing and interpretation of marine geophysical data in support of scientific voyages. The role requires the Geophysicist to provide sea-going support for up to 85 days per year. Experience in field work, familiarity with Kongsberg and Simrad echosounders, seismic, and other acoustic and potential field marine geophysical sensors, equipment maintenance and a publication record will be highly regarded.

The position will be based in the CSIRO Laboratories in Hobart. Whilst onshore, the Marine Geophysicist will be engaged in data processing, technique development, data management, and voyage preparation activities.

## Duties and Key Result Areas:

* As part of a team, operate and maintain marine geophysical equipment, including multibeam and singlebeam echosounders, seismic, gravity meter, magnetometer and other instruments as required, in support of sea-going operations.
* Liaise with stakeholders concerning all aspects of survey planning, survey, data collection and processing, and respond to data requests.
* Process and interpret bathymetric and other geophysical data sets at sea and on shore, deriving and integrating GIS and mapping products, visualising data and communicating the results through reports and papers.
* Liaise with clients to determine their needs and take personal responsibility for their satisfaction, correct problems promptly and in a constructive manner.
* Under general direction, manage a facility or service supporting a large number of users, undertake a wide variety of tasks or tasks that have a high degree of technical difficulty, documenting procedures and training clients in systems and processes.
* Participate in the planning of projects and accept responsibility for carrying out major parts of the project, including data analysis, and typically make significant contributions to the interpretation and communication of results.
* Be able to proactively negotiate with external bodies.
* Utilise management expertise including the ability to plan, organise and monitor the allocation of resources across a facility.
* 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 meet client needs.
* 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.*

* A tertiary qualification in Geophysics, Earth Science or a related field and considerable experience.
* Demonstrated working knowledge of the theory and practise of acquiring marine geophysical data, particularly multibeam bathymetry, marine gravity, magnetic, sub-bottom profiler and water column acoustic data.
* Demonstrated ability in the processing and interpretation of geophysical data.
* Excellent recordkeeping skills, demonstrated ability to clearly communicate scientific concepts verbally and in technical reports and papers.
* Demonstrated ability to work collaboratively as part of a highly competent and committed team, and to work independently with minimal supervision
* Demonstrated ability & willingness to contribute novel ideas and approaches in support of scientific investigations.
* The ability and willingness to work at sea, to obtain an ASPEN Certificate of Medical Fitness; a Marine Security Identification Card, and complete an Elements of Shipboard Safety training course.

## Desirable Criteria:

* Familiarity with seismic data acquisition and processing.
* Experience working in a Unix/Linux environment, and with one or more programming languages.
* Demonstrated experience in data management.
* Knowledge of hydrographic surveying methods & techniques.
* Strong publication record.

## Special Requirements:

* The ability to obtain an ASPEN Certificate of Medical Fitness; a Marine Security Identification Card, and an Elements of Shipboard Safety Certificate.
* The ability and willingness to work at sea, to obtain an ASPEN Certificate of Medical Fitness; a Marine Security Identification Card, and complete an Elements of Shipboard Safety training course.

## About CSIRO:

At CSIRO we solve the greatest challenges through innovative science and technology. See more [online](http://www.csiro.au/)!

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