# Position Description

*Hydrographic/Geophysical Surveyor*

## Technical Services – CSOF4

The following information is for applicants

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| Advertised Job Title**:** | Hydrographic/Geophysical Surveyor |
| Job Reference: | 61209 |
| Relocation Assistance**:** | Will be provided to the successful candidate if required. |
| Applications Are Open To: | [x]  Australian/New Zealand Citizens and Australian Permanent Residents Only |
| Percentage of Client Focus - Internal: | 90% |
| Percentage of Client Focus - External: | 10% |
| Reports to the: | Team Leader, Geophysical Survey and Mapping |
| Number of Direct Reports: | 0 |
| Name and Contact Details For Applicant Enquiries: | Stuart Edwards via email stuart.edwards@csiro.au |
| Contact Details For Applying: | Call 1300 984 220 or email 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 Hydrographic/Geophysical Surveyor will work in a diverse team providing scientific support on the RV Investigator, undertaking survey planning and the acquisition, processing and interpretation of marine geophysical data in support of scientific voyages. The role also requires the appointee to provide sea-going support for up to 85 days per year. The position will be based in the CSIRO Laboratories in Hobart. Whilst onshore, the Hydrographic/Geophysical Surveyor 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, gravity meter, magnetometer, seismic and other instruments as required, in support of sea-going operations.
* Undertake hydrographic surveys from various survey platforms to the applicable standard.
* Liaise with stakeholders concerning all aspects of survey planning, data collection and processing and responding 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.
* Communicate effectively and respectfully with all staff, clients 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 Values, 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. **Judgement and Problem Solving:** Investigates underlying issues of complex and ill-defined problems and develops appropriate response by adapting/creating and testing alternative solutions.
4. **Independence: Recognise and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).**
5. **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. Relevant tertiary qualification and/or equivalent work experience in Geomatics, Geophysics, Earth Science or a related field.
2. Previous working knowledge of the theory and practise of hydrographic surveying and/or acquiring marine geophysical data, particularly multibeam bathymetry, marine gravity, magnetic, sub-bottom profiler and water column acoustic data.
3. Demonstrated ability in the processing and interpretation of bathymetric or geophysical data.
4. Excellent recordkeeping skills, and an ability to clearly communicate scientific concepts verbally and in technical reports and papers.
5. Experience working in a collaborative environment as part of a highly competent and committed team, and to work independently with minimal supervision.
6. Ability to provide a high level of technical support at sea up to 85 days per year on voyages of up to 8 weeks duration.
7. Experience in contributing novel ideas and approaches in support of scientific investigations.

## Desirable Criteria:

1. Certification with (or a willingness to work towards certification) with the Surveying & Spatial Instritute (SSSI) Australian Hydrographic Surveyors Certification Panel (AHSCP).
2. Familiarity with seismic data acquisition and processing.
3. Experience with Kongsberg/Simrad Echosounders and/or other marine geophysical instrumentation.
4. Experience working in a Unix/Linux environment, and with one or more programming languages.
5. Demonstrated experience in data management.

## Special Requirements:

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

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