# Position Details

## Technical Services- CSOF4

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| The following information is for applicants |
| Advertised Job Title | Ocean Mapping Specialist  |
| Job Reference | 95001 |
| Tenure | Indefinite - Full-time |
| Salary Range | AU$89,680 - AU$101,459 per annum, plus 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 Permanent Residents Only |
| Position reports to the | Team Leader, Geophysical Survey & Mapping |
| Client Focus – Internal | 90% |
| Client Focus – External | 10% |
| Number of Direct Reports | 0 |
| Enquire about this job | Stuart Edwards by email Stuart.Edwards@csiro.au or phone +61 3 6232 5440 |
| 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. |

**Acknowledgement of Country**

CSIRO acknowledges the Traditional Owners of the land, sea and waters, of the areas that we live and work on across Australia. We acknowledge their continuing connection to their culture and pay our respects to their Elders past and present. View our [vision towards reconciliation](https://www.csiro.au/en/about/Indigenous-engagement/Reconciliation-Action-Plan).

### Role Overview

As part of the diverse GSM Team, the Ocean Mapping Specialist will sit as a Technical Officer within the Scientific Data Systems (SDS) Group as part of the Engineering and Technology Program in CSIRO’s National Collections and Marine Infrastructure (NCMI). The position will be based at the CSIRO Laboratories in Hobart, and the role will primarily provide support to the Marine National Facility (MNF) blue-water research vessel, RV Investigator.

The role requires the appointee to provide technical sea-going support for up to 85 days per year on voyages that are typically 2 to 8 weeks in duration. Whilst at sea, the Ocean Mapping Specialist will provide support to the science team on 12-hour shifts undertaking planning, acquisition, processing, and interpretation of bathymetric, bioacoustic and marine geophysical data. The appointee will also be expected to participate in instrumentation testing and calibrations when required.

Whilst onshore, the appointee will be engaged in voyage preparation activities, data processing, technique development and data management activities.

### Duties and Key Result Areas

* As part of a team, provide survey/mission planning support and operate and maintain hydrographic, bioacoustic and marine geophysical equipment, including multibeam and single-beam echosounders, gravity meter, magnetometer, and other ocean mapping instruments (as required), in support of sea-going operations.
* Undertake mapping surveys from various survey platforms to applicable standard.
* Liaise with stakeholders concerning all aspects of planning, survey, data collection and processing and respond to data requests.
* Process and interpret bathymetric, bioacoustic, and geophysical datasets at sea and on shore.
* Deriving and integrating of GIS and mapping products, visualising data, and communicating the results through reports and papers.
* Undertake maintenance, repair and calibration of survey systems and sensors as required.
* 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.
* 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.
* Represent CSIRO at a range of conferences and workshops, including providing technical presentations.
* Work collaboratively as part of a multi-disciplinary, 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 Zero Harm goals.
* Other related duties as directed.

**Selection Criteria:**

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

**Essential:**

1. A tertiary qualification and/or equivalent work experience in Ocean Mapping, Hydrographic Surveying, Spatial Sciences, Marine Science, or a related field.
2. Demonstrated working knowledge of the theory and practise of ocean mapping techniques and acquiring bathymetric, bioacoustic and/or marine geophysical data, particularly multibeam bathymetry, water column acoustics, and sub-bottom profiler data.
3. Demonstrated ability in the processing and interpretation of bathymetric, bioacoustic and/or geophysical data including acquisition software, data storage formats and transfer techniques.
4. Excellent recordkeeping skills and a demonstrated ability to clearly communicate scientific concepts verbally and in technical reports and papers.
5. Demonstrated ability to work both collaboratively as part of a highly competent and committed team, and 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.

**Desirable:**

1. Prior deepwater mapping experience working onboard blue-water research vessel(s).
2. Experience with Kongsberg & Simrad mapping systems (multibeam & bioacoustic sounders and sub-bottom profilers).
3. Experience with survey/mapping software packages (Caris, Qinsy, Qimera, Geocoder, Fledermaus, Echoview, ArcGIS/QGIS).
4. Working with one or more programming/scripting languages.
5. Demonstrated experience in data management.
6. Completed the CCOM JHC Multibeam Sonar Training course (MBCourse).
7. Relevant publication record.

## **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 required 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.
* Must be willing and able to work at sea and to travel extensively in order to provide operational support in domestic or foreign ports (up to 85 days per year of seagoing support on voyages that are typically 2 to 8 weeks in duration).
* Must be willing and able to obtain a remote medical clearance and a Marine Security Identification Card.

**About CSIRO**

We solve the greatest challenges through innovative science and technology. Visit [CSIRO Online](http://www.csiro.au/) and [National Research Collections Australia](https://www.csiro.au/en/about/facilities-collections/Collections) for more information.

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

* People First
* Further Together
* Making it Real
* Trusted