# Position Description

## Technical Services – CSOF4

The following information is for applicants

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| Advertised Job Title**:** | Software Engineer |
| Job Reference: | 59847 |
| Relocation Assistance**:** | Will be provided to the successful candidate if required. |
| Applications Are Open To: | Australian/New Zealand Citizens and Australian Permanent Residents Only |
| Percentage of Client Focus - Internal: | 80% |
| Percentage of Client Focus - External: | 20% |
| Reports to the: | Team Leader, Information & Data Centre |
| Number of Direct Reports: | 0 |
| Name and Contact Details For Applicant Enquiries: | Pamela Brodie via email: [Pamela.Brodie@csiro.au](mailto:Pamela.Brodie@csiro.au).  *Please do not email your application to Pamela Brodie. Applications received via this method will not be considered by the selection panel.* |
| Contact Details For Applying: | Call 1300 984 220 or email [careers.online@csiro.au](mailto: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 Software Engineer will work in a diverse team maintaining and developing innovative software applications and tools associated with the visualisation and managementof MNF vessel data.

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. At senior levels staff may be involved in management of a facility or service and negotiations with external clients/industry.

The Software Engineer will sit within the Scientific Data Systems (SDS) Group, which is part of the Engineering and Technology Program in CSIRO Oceans and Atmosphere (O&A), and provide Data Management infrastructure to the Marine National Facility (MNF).

The position will be based in the CSIRO Laboratories in Hobart.

## Duties and Key Result Areas:

### Develop innovative software systems to support the tracking, publication and reuse of scientific data sets.

### Take responsibility for the development and maintenance of web-based systems, services and tools for the management and visualisation of a wide range of scientific and geospatial data.

* Undertake stakeholder engagement and develop interoperable data systems for the dissemination of MNF data.
* Adhere to the spirit and practice of CSIRO’s Values, Health, Safety and Environment plans and policies, Diversity initiatives and Zero Harm goals.
* Participate in the planning of projects and accept responsibility for carrying out major parts of the project, and typically make significant contributions to the documentation and communication of results.
* 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.
* 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 relevant tertiary qualification in Computer Science/or reated discipline and/or experience working in the design and development of web-based data driven systems.
* Demonstrated computing skills as follows:
* Ability to program in modern object oriented languages (e.g. Python, Java etc.) and experience with frameworks, libraries and languages relevant to the development of data systems and web-based applications,
* Windows/Linux network administration skills,
* An understanding of software engineering methodologies and version control systems.
* Experience in, or a strong willingness to support, the standards-based management, visualisation and dissemination of scientific data.
* Familiarity with relational databases.
* Excellent interpersonal, oral and written communications skills. A demonstrated ability to clearly document software, data flows and to produce manuals and/or reports.
* Demonstrated ability to develop and meet goals, working with clients under limited direction to mutually agreed outcomes and specific deadlines.

***Desirable***

* An understanding of the principles of scientific data management including the development and use of controlled vocabularies, standard data formats, metadata, and archiving.
* Experience with Javascript frameworks and web scripting languages (such as Lucee or PHP).
* Familiarity with common geospatial tools, formats, standards and publishing OGC compliant web services.

## About CSIRO:

We imagine. We collaborate. We innovate. To find out more visit us [online](http://www.csiro.au/)!

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