# Position Details

## Technical Services- CSOF4

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| The following information is for applicants | |
| Advertised Job Title | Software Engineer, Information & Data Centre |
| Job Reference | 73084 |
| Tenure | Indefinite  Full-time |
| Salary Range | AU$85,361 to AU$96,573 pa (pro-rata for part-time) + 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/New Zealand Citizens and Australian Permanent Residents Only |
| Position reports to the | Team Leader, Information & Data Centre |
| Client Focus – Internal | 80% |
| Client Focus – External | 20% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Ben Clews via email at ben.clews@csiro.au or phone +61 6232 5201 |
| 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

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 Software Engineer will work within the Scientific Data Systems (SDS) Group, part of CSIRO's National Collections and Marine Infrastructure (NCMI) business unit. We manage Marine National Facility (MNF) data from the Research Vessel Investigator and other biological collections to benefit research and industry.

The Software Engineer will work in a diverse team developing, deploying and maintaining innovative web tools and systems for the curation, description and dissemination of scientific data.

### Duties and Key Result Areas:

* Develop innovative software systems to support the tracking, publication and reuse of scientific data sets.
* Take responsibility for developing and maintaining web-based systems, services, and tools to manage and visualise a wide range of scientific and geospatial data.
* Undertake stakeholder engagement and develop interoperable data systems for the dissemination of MNF data.
* Liaise with clients to determine their needs and take personal responsibility for their satisfaction, correcting problems promptly and in a constructive manner.
* Proactively negotiate with external bodies, e.g. Institute for Marine & Antarctic Studies (IMAS), Integrated Marine Observing System (IMOS), and international organisations, such as SeaDataNet.
* 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 the 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 supporting CSIRO scientific objectives.
* Adhere to the spirit and practice of CSIRO’s Code of Conduct, Health, Safety and Environment procedures and policy, Diversity initiatives and Making Safety Personal goals.
* Other duties as directed.

## **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:** Recognise 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.

## **Selection Criteria**

#### Essential

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

1. A relevant tertiary qualification in Computer Science or Software Engineering and experience designing, developing and maintaining web-based, data-driven systems.
2. Demonstrated computing skills as follows:
   1. Ability to program in modern object-oriented languages (e.g. Python, Java) and experience with frameworks, libraries and languages relevant to the development of data systems and web-based applications,
   2. Windows/Linux network administration skills, and
   3. An understanding of modern software engineering methodologies.
   4. An understanding of DevOps principles and processes.
3. Experience in, or a strong willingness to support, the standards-based management, visualisation and dissemination of scientific data.
4. Familiarity with relational databases.
5. Excellent interpersonal, oral and written communications skills, including a demonstrated ability to document software, data flows and to produce manuals and reports.
6. Demonstrated ability to develop and meet goals, working with clients under limited direction to mutually agreed outcomes and specific deadlines.

## **Desirable:**

1. An understanding of scientific data management principles, including the development and use of controlled vocabularies, standard data formats, metadata, and archiving.
2. Familiarity with common geospatial tools, formats, standards and publishing OGC compliant web services.
3. Experience in managing large datasets and managing related performance issues.

Special Requirements

The successful candidate will be asked to obtain and provide evidence of a National Police Check or equivalent. Please note that people with criminal records are not automatically deemed ineligible. Each application will be considered on its merits.

## **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