# Position Details

## Technical Services - CSOF5

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| The following information is for applicants | |
| Advertised Job Title | Software Engineer |
| Job Reference | 92611 |
| Tenure | Specified Term of 2 years, Full-time |
| Salary Range | AU$105,806 - AU$114,500 per annum plus up to 15.4% superannuation |
| Location(s) | Melbourne, Canberra, Sydney and Brisbane |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | Australian/New Zealand Citizens and Australian Permanent Residents |
| Position reports to the | Systems Team Lead |
| Client Focus – Internal | 80% |
| Client Focus – External | 20% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact via email at Sathish.Sathyamoorthy@csiro.au |
| 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. |

**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).

**Child Safety**

CSIRO is committed to the safety and wellbeing of all children and young people involved in our activities and programs. View our [Child Safe Policy](https://www.csiro.au/en/about/policies/child-safe-policy).

### Role Overview

The Atlas of Living Australia (ALA), CSIRO is Australia most comprehensive source of biodiversity information and data. We are expanding and looking for talented full-stack developers to be part of our team delivering products that support the environment and the country.

Joining a team of approximately 50 people and using contemporary open-source products and cloud technologies, in this role you will:

* Create, maintain and develop code to support ALA products, services and projects.
* Undertake and practice contemporary software engineering practices.
* Produce robust software which meets technical and non-technical requirements.
* Work collaboratively with a team of product managers, research scientists and developers to meet project and product goals.

About the Atlas of Living Australia:

The Atlas of Living Australia (ALA) is funded under the National Collaborative Research Infrastructure Strategy (NCRIS) and hosted by CSIRO. The ALA is the Australian node of the Global Biodiversity Information Facility (GBIF). Our digital infrastructure is developed in-house to support research activities, government decision-making and community events.

The ALA uses and produces software services and tools to aggregate Australian biodiversity data from a variety of providers and make it discoverable and reusable online. Our technology stack is reused by over 25 countries.

### Duties and Key Result Areas

* Create, develop and maintain high quality code that meets functional and non-functional requirements.
* Work collaboratively with team members to solve technical problems and deliver to customer needs and expectations
* Undertake best-practice software engineering practices including CI/CD, create and maintain unit, integration and functional tests and dev-ops practices.
* Other duties as directed

## **Selection Criteria**

#### Essential

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

* Demonstrated experience in one or more of the following languages: Java, Python, JavaScript or Groovy
* Experience developing and managing software in a cloud environment, such as AWS, GCP, Azure or OpenStack
* Experience with Linux OS
* Working knowledge of relational and non-relational databases and SQL
* Experience with git version control system (or equivalent)
* The ability to work both independently and as part of a team, taking initiative and exercising sound judgement in resolving issues to achieve desired results.

## **Desirable**

Experience with:

* Configuration management or infrastructure as code tools, such as Ansible, Terraform, CloudFormation, Puppet or Chef
* Agile methodologies
* Front end technologies such as React, Vue.js, Knockout or Angular.
* Cyber security concepts and best practices
* Biodiversity data and/or GIS systems
* API Gateway, Cognito, Cloud watch or other AWS services.
* CICD (Continuous Integration Continuous Deployment)
* Search index technologies such as SOLR, Elastic or Amazon Cloud Search

## **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:** Sets up and maintains effective and efficient work teams and manages performance and resources, to achieve objectives. Chooses appropriate management strategies and communication styles to maintain high levels of motivation and productivity. Gives feedback for development purposes and provides support and direction for improvement.
* **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:** Plans, sets and works to meet challenging standards and goals for self and/or others. Recognises where endeavours will make the most impact or difference, decides on desired outcome and sets realistic goals to reach this target.
* **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

Appointment to this role is subject to provision of a pre-employment background check and may be subject to other security/medical/character clearance requirements.

Include if relevant:

* The successful candidate will undertake a pre-employment background check. Please note that individuals with criminal records are not automatically deemed ineligible. Each application will be considered on its merits.
* *If you have any queries regarding finalising the Duties and Key Result Areas or the Special Requirements for this position, please consult with In-business HR or the Talent Acquisition Team.*

## **About CSIRO**

We solve the greatest challenges through innovative science and technology. Visit [CSIRO Online](http://www.csiro.au/) 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