# Position Description

## Technical Services – CSOF6

The following information is for applicants

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| Advertised Job Title**:** | Senior Software Engineer |
| Job Reference: | 62282 |
| 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% |
| Number of Direct Reports: | 0 |
| Name and Contact Details For Applicant Enquiries: | If after reading the position details above you require more information please contact **Zoe Piper** (zoe.piper@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:

Developed in collaboration with over 70 partners, IC Global (<https://innovationcatalyst.global>) is an integrated suite of platforms designed to catalyse innovation by facilitating: capability discovery, problem solving and data visualisation.

The IC Global team are responsible for the development, delivery and management of the IC Global Platform Suite, including:

* Expert Connect (<https://expertconnect.global/>)
* Innovation Challenges marketplace (<https://innovationchallenges.global/>)
* InnovationMap (<http://innovationmap.global/>)

Under the direction of the Principal Software Engineer take responsibility for the design, delivery, testing and maintenance of specific system sub-components.

## Duties and Key Result Areas:

The Senior Software Engineer will work with the Principal Software Engineer and other team members to:

* Develop and maintain robust and scalable software in response to business needs
* Design, build and deploy beautiful, efficient and maintainable user interfaces
* Ensure that code deployment follows best practices
* Ensure that systems are designed and managed using an “infrastructure as code” approach
* Proactively identify and resolve production issues
* Analyse and document business and systems requirements
* Develop and implement project plans
* Collaborate with internal and external groups as directed
* Contribute to ongoing process improvement activities
* Collaborate effectively with research, engineering and business teams across CSIRO to ensure that project goals and CSIRO’s strategic goals are achieved
* Maintain high ethical and performance standards
* 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:** Identifies critical stakeholders and influences them via an influential third party, for example through an established network, to gain support for sometimes contentious, proposals/ideas
3. **Resource Management/Leadership:** Provides leadership that fosters an environment that encourages new ideas and provides support for the development of emerging skills. Creates trust by displaying consistency, understanding, integrity and patience. Plans, seeks, allocates and monitors resources to achieve outcomes.
4. **Judgement and Problem Solving:** Anticipates and manages problems in ambiguous situations. Develops and selects an appropriate course of action and provides for contingencies. Evaluates, interprets and integrates complex bodies of information and draws logical conclusions, synthesises proposals and defends options with reasoned arguments.
5. **Independence:** Assesses the risk and opportunity of identified strategies, options and actions. Overcomes problems and setbacks in achieving goals. Invariably includes consideration of value-added future impact on bottom line when determining the optimal and efficient use of resources.
6. **Adaptability:**Demonstrates flexibility in thinking and adapts to and manages the increasing rate of organisational change by adjusting strategies, goals and priorities.

## Selection Criteria:

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

1. At least 5 years of commercial software development experience.
2. Strong written and oral communication skills.
3. Demonstrated NodeJS and ReactJS experience or a commitment to develop technical skills in this space.
4. Experience building RESTful apis, Swagger experience well regarded.
5. Experience with AWS.
6. Docker experience and some understanding of an infrastructure as code approach to system design and maintenance.
7. Highly developed technical skills in Javascript/typescript.
8. Demonstrated Scala skills, or strong JVM experience and at least one functional language.
9. Experience in handling high severity incidents in a 24\*7 production support environment.
10. Ability to overcome technical road-blocks, solve problems and make sound well considered decisions.

## Desirable Criteria:

1. Familiarity with Apache NiFi or a commitment to develop technical skills in this space.
2. Experience or interest in entity resolution or entity extraction particularly as it relates to name disambiguation.
3. Interest in machine learning and graph analytics.

## Special Requirements:

Appointment to this role may be subject to conditions including security/national police/medical/character clearance requirements. Applicants who are not Australian Citizens or Permanent Residents may be required to undergo additional security clearances, which may include medical examinations and an international standardised test of English language proficiency (i.e. IELTS test).- <https://ielts.com.au/>

## About CSIRO:

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