# Position Details

## Technical Services- CSOF6

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| The following information is for applicants |
| Advertised Job Title | Solution Architect |
| Job Reference | (82021) |
| Tenure | IndefiniteFull-time or Part-time  |
| Salary Range | AU$ $117,917 to AU$138,176 pa (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | Various |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | * Australian Citizens Only
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| Position reports to the | Executive Manager – Reinvent Science |
| Client Focus – Internal | 100% |
| Client Focus – External | 0% |
| Number of Direct Reports | 0 |
| 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. |

### Role Overview

The **Solution Architect – Reinvent Science** provides leadership and direction for business transformation and overseeing critical deliverables, such as business capability models, business capabilities, and value streams to the Reinvent Science Program within the **Science Digital Transformation** initiative.

Science Digital Transformation is a CSIRO wide initiative that is empowering our researchers, engineers, and project teams with leading-edge digital technologies, skills and ways of working, to create a better future for Australia. The Reinvent Science program is accelerating discovery and advancing the way we do science using current and future digital technologies – projects within the program are partnerships between our science teams, our digital science unit Data61, and Information Management and Technology (IMT). By joining the program you’ll be part of a cross disciplinary team working to solve a broad spectrum of challenges with innovative digital solutions that combine both current well established technologies (such as high-performance computing, machine learning, cloud, data analysis, modelling and simulation) and emerging or growing digital technologies (such as artificial intelligence, extended reality, digital twins, and robotics), Reinvent Science aims to redefine the tools used for science and allow team CSIRO to tackle currently intractable problems.

The role will blend business objectives into cohesive overarching system designs, communicate technical solutions and design trade-offs effectively to business stakeholders, and provide a delivery framework that ensures quality and success. The role will also develop system level designs for the technology building blocks and components that will make up the solutions of Reinvent Science. The solution architect will collaborate closely with the relevant Capability and Technology Leads to facilitate the development of high-level concept design of the overall systems and facilitate the development of the logical and physical component designs of the solutions. The role will consult with BUs, and work with Data61 and IMT leadership to support how the program integrates with, and complements, other subprograms of the Science Digital Transformation initiative, as well as other IMT and Data61 activities.

### Duties and Key Result Areas:

* Facilitate the development of system level designs.
* Deliver system designs including ‘as built’ and target states.
* Work with capability and technology leads to develop sub-system level designs and to develop technology plans
* Derive and break down systems into components, the component interactions and interfaces and the technologies and resources to be used
* Lead a number of technical working groups.
* Conduct system design activities and reviews of detailed component designs and provide advice on solution design best practice.
* Liaise with all CSIRO IMT teams to ensure that the integrated nature of IMT systems is represented and considered in systems and technology design.
* Generate the highest level of system requirements**,** based on the users', organisational and compliance needs and other constraints.
* Assist in the establishment and ongoing development of architectural viewpoints, which consider the Business, Information, Application and Technology domains
* Assist in the development of standards across the Business, Information, Application and Technology domains.
* 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.
* Work collaboratively as part of a multi-disciplinary, often regionally dispersed team, and business unit to carry out tasks in support of 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:**

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**

#### Essential

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

1. Proven System/Solution Architect and/or Solution Architecture experience, demonstrating the ability to blend and translate business needs and outcomes to align to system elements thus assuring the people, organisations, information, cyber and application needs are accommodated and directly related to business needs.
2. Demonstrated ability to understand and lead technical teams across the following technical considerations:
	1. Networking technologies
	2. Identity and Access Management
	3. Server technologies both physical and virtual
	4. Application integration technologies
	5. Storage and data technologies
	6. Cloud technologies
3. Demonstrated experience in development of System and Solution Design documentation
4. Background in large technology engineering initiatives including diverse and dispersed data sets, complex business processes
5. Proven experience working for a government agency to deliver enterprise scale technology or infrastructure projects.
6. Experience producing simple diagrams to convey complex technical problems
7. Ability to work within an agile working environment and agile methodologies & tools.

## **Desirable:**

1. Experience working in a research organisation

Special Requirements

Appointment to this role may be subject to conditions including provision of a national police check as well as other security/medical/character clearance requirements.

* The successful candidate will be required to obtain and maintain a security clearance at the Baseline Level.

## **About CSIRO:**

We solve the greatest challenges through innovative science and technology. To find out more visit us [online](http://www.csiro.au/)!