# Position Details

## Research Projects- CSOF6

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| The following information is for applicants |
| Advertised Job Title | FHIR Solution Architect |
| Job Reference | 96363 |
| Tenure | Specified Term of 1 years Full-time |
| Salary Range | AU$126k - AU$148k per annum (pro-rata for part-time)plus up to 15.4% superannuation |
| Location(s) | Brisbane QLD (preferred), Sydney NSW, Canberra ACT, Melbourne VIC |
| 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 | Team Leader |
| Client Focus – Internal | 50% |
| Client Focus – External | 50% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Danielle Tavares-Rixon, via email at Danielle.Tavares-Rixon@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 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 Australian e-Health Research Centre (AEHRC) is CSIRO’s national digital health research program. We’re championing the digital delivery of healthcare enabled by ​world-leading digital research and innovation​, industry partnerships, community connections​, and national trust. We’re a dedicated and committed team, passionate about transforming the health of Australians. You’ll find some of our health and biomedical informatics research:

* Delivered through virtual care to monitor health remotely;
* Informing evidence-based digital health solutions; or
* Transforming the efficiency of hospital and health systems – nationally and internationally.

With over 100 scientists and engineers across Brisbane, Sydney, Melbourne, Canberra and Perth, the AEHRC is Australia’s largest digital health research program.

The unparalleled demands of COVID-19 have been a catalyst for increased focus on digitisation and innovation in health. CSIRO, via the AEHRC, is leading a national agenda focused on innovation to foster continued transformation and sustainable healthcare delivery practices. We're hiring a number of talented researchers and leaders to contribute to this significant objective.

The FHIR Solution Architect will join the FHIR Accelerator team in the Australian e-Health Research Centre (AEHRC). The position will involve working closely with the AEHRC team, along with other collaborators and stakeholders in the creation, development, management and support of open data exchange standards and capabilities to meet the current and future needs for Australia’s health system.

The successful candidate will create, standardise and maintain national and international FHIR standards, to facilitate the safe and accurate exchange of digital health information across the health sector. Working as part of the FHIR Accelerator team, this role’s primary focus is the development of HL7 AU FHIR standards and associated materials through a community-led process.

This role will also support data standards, clinical terminology, and project tasks as needed. The role will contribute to the Australian FHIR Community Process, support piloting and implementation of standards, as well as generating and contributing ideas for further research.

### Duties and Key Result Areas

* Apply understanding of FHIR, interoperability, systems integration, AU Health and healthcare systems, and open source standards to end-to-end exchange of digital health information across the health sector to develop architecture strategies and solutions as part of a national standard for data exchange.
* Translate requirements from different stakeholders into technical solutions, maintaining the integrity of a national standard approach while addressing the agreed needs of stakeholders
* Facilitate community-led process to solution designs, systems views and architectures.
* Develop software system designs and technical documentation to guide new system developments, changes, and refactoring efforts.
* Technically produce and maintain FHIR conformance resources.
* Contribute to FHIR implementation guides, test suites, tools.
* Provide input into proposed implementation approaches and provide support and guidance to implementers and projects on implementation and deployment of standards.
* Research new technical approaches to solving problems.
* Develop and maintain effective relationships with internal and external stakeholders, including software implementers, standards organisations, other agencies, and industry bodies.
* Support efforts to identify opportunities to increase the uptake and usage of open data exchange standards and capabilities to meet the current and future needs for Australia’s health system.
* Develop and maintain support documentation and guidance including examples to clearly communicate complex technical material.
* Understand and participate in national and international discussions regarding direction in standards development and implementation.
* Participate in industry and standards committees as required and nominated.
* Utilise project and document management tools/software as required to ensure timely and effective delivery of projects.
* 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 and objectives.
* Work collaboratively as part of a multi-disciplinary, regionally dispersed team to carry out tasks.
* Adhere to the spirit and practice of CSIRO’s Values, Code of Conduct, Health, Safety and Environment procedures and policy and diversity initiatives.
* Other duties as directed.

## **Selection Criteria**

#### Essential

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

1. Relevant bachelor’s degree or equivalent relevant work experience in IT.
2. Demonstrated experience with the design and development of software systems within a variety of technical development and deployment environments.
3. Experience in the Health domain and HL7 standards (especially with HL7’s FHIR Specification).
4. Knowledge and understanding of common patterns applied to problems within software systems design and integration.
5. Knowledge and experience with the design and implementation of APIs.
6. Experience implementing and contributing to technical standards and specifications.

## **Desirable**

1. Experience working with agile software development practices.
2. Strong computer science fundamentals, including knowledge of logical modelling and ontologies.
3. Familiarity with terminology and other standards used in the Australian health industry e.g., SNOMED CT, LOINC, ICD-10, OAuth, OpenID Connect.
4. Familiarity with the design and development of FHIR implementation guides.

**General**

1. Experience working as an effective communicator at the intersection of business and technical concerns.
2. Knowledge and understanding of the healthcare IT domain, particularly in systems interoperability and integration.
3. Ability to work independently and efficiently to meet deadlines as well as working cooperatively with others in a high functioning team to meet team objectives.
4. Demonstrated experience building and maintaining strong professional and collaborative working relationships.

## **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 team as well as industry colleagues.
* **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.
* **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:** 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.
* **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.
* **Adaptability:**Demonstrates flexibility in thinking and adapts to and manages the increasing rate of organisational change by adjusting strategies, goals and priorities.

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.

* 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.

## **About CSIRO**

We solve the greatest challenges through innovative science and technology. Visit [CSIRO Online](http://www.csiro.au/) and [AEHRC website](file://Users/loi011/Downloads/aehrc.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