# Position Details

## Research Projects- CSOF6

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| The following information is for applicants | |
| Advertised Job Title | Software Engineer – Health Informatics |
| Job Reference | 76628 |
| Tenure | Indefinite |
| Salary Range | AU$115,605 to AU$135,467 pa (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | Parkville |
| 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/Senior Engineer |
| Client Focus – Internal | 80 |
| Client Focus – External | 20 |
| Number of Direct Reports | 0 |
| Enquire about this job | **Dr Michael Lawley** via email: [Michael.Lawley@csiro.au](mailto:Michael.Lawley@csiro.au) or telephone: **07 3253 3610**. |
| 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 a Software Engineer within CSIRO is to initiate, develop, lead and promote CSIRO's research capability for the benefit of Australia's economy, society/community and/or environment through strategic partnerships with industry. The Software Engineer will work with CSIRO research scientists and project staff and CSIRO clients to develop and deliver projects.

The Australian e-Health Research Centre (AEHRC - <http://aehrc.com/>) is a world class centre undertaking research and development across health and biomedical informatics and health services. We are seeking to appoint a highly motivated individual within our Health Informatics group.

The successful candidate will contribute to multiple projects undertaken within AEHRC and with partner organisations. These projects will include the development of new platforms and applications for data interoperability in healthcare – including information modelling with FHIR and OMOP and the use of clinical terminologies such as SNOMED CT.

This is a great opportunity for the successful candidate to work with other innovative researchers in a leading government organisation which is engaged in world class scientific research projects, and offers excellent career development and professional support. CSIRO is strongly committed to Diversity and offers Flexible Working Arrangements. The successful candidate will have a unique opportunity to translate their research into practice with impact on both Australian and international e-Health programmes.

### Duties and Key Result Areas

* Work with clients and CSIRO researchers and software engineers to lead projects in developing software and solutions to deliver high-impact solutions within the area of integration and analysis of clinical and other health data.
* Develop and maintain high quality software in accordance with industry best practice and organisational guidelines.
* Contribute to the management and administration of operational business systems, web sites and associated infrastructure.
* Communication of project outcomes through support documentation, demonstrations and presentations.
* Help build CSIRO’s research and engineering reputation for integrated and multi-disciplinary science related to health data semantics.
* Communicate effectively and respectfully with all staff, clients and suppliers in the interests of good business practice, collaboration and enhancement of CSIRO’s reputation.
* Work with CSIRO Business Development staff to identify commercial opportunities for software and products developed as part of projects.
* Adhere to, promote and encourage 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.

## **Selection Criteria**

#### Essential

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

***Pre-Requisites:***

1. **Education/Qualifications:** Knowledge and skills gained through tertiary qualifications in a relevant discipline such as Computer Science or equivalent field.
2. **Communication:** Excellent communication skills, both written and oral, including the ability to anticipate the interests and knowledge level of an audience and present information and feedback accordingly.
3. **Collaboration:** A history of professional and respectful behaviours and attitudes in a collaborative environment.
4. **Adaptability:** The ability to effectively manage a number of competing priorities simultaneously, and carry out non-routine tasks independently.
5. **Problem Solving:** Proven ability to anticipate and manage significant issues, often in ambiguous situations, by evaluating and interpreting complex information and developing creative solutions and contingencies.

***Essential Criteria:***

1. Demonstrated experience in health informatics, with specific experience with the HL7 FHIR standard or the OMOP data standard and/or the use of clinical terminologies or other ontology engineering.
2. Experience with the development and delivery of Java-based web services, such as the Spring Boot framework.
3. Experience with using public cloud infrastructure and containerised deployment through for example Kubernetes
4. Experience in working with key stakeholders in understanding and developing requirements and communicating potential solutions.
5. Experience working within a team participating in an agile software development process.
6. Ability to work as part of a team as well as demonstrable evidence of self-organisation, including the ability to meet demanding deadlines and respond creatively and rapidly to new requirements.

***Desirable Criteria:***

1. Demonstrated experience in developing enterprise architectures would be an advantage

**As Australia’s Innovation Catalyst, CSIRO has strategic actions underpinned by behaviours aligned to**:

* Excellent science
* Inclusion, trust & respect
* Health, safety & environment
* Delivery on commitments.

## *In your application and at interview you will need to demonstrate alignment with these behaviours.*

## **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 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 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.
* If the successful candidate is not an Australian Citizen or Permanent Resident, they 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 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

Find out more about CSIRO [Land and Water](https://www.csiro.au/en/Research/LWF)