



Position Details

Research Projects- CSOF6

THE FOLLOWING INFORMATION IS FOR APPLICANTS	
Advertised Job Title	Senior Software Engineer - Health Informatics
Job Reference	77348
Tenure	Indefinite
Salary Range	AU\$117,917 to AU\$138,176 pa (pro-rata for part-time) + up to 15.4% superannuation
Location(s)	Negotiable – Sydney, Melbourne, Brisbane, Perth or remote
Relocation Assistance	Will be provided to the successful candidate if required
Applications are open to	All Candidates
Position reports to the	Team Leader Health & Biosecurity
Client Focus – Internal	30%
Client Focus – External	70%
Number of Direct Reports	0
Enquire about this job	Contact Derek Ireland via email at Derek.Ireland@csiro.au or phone +61 7 3253 3608
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 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 include the development and deployment of full-stack web and mobile applications for health system optimisation decision support, remote health care delivery and monitoring, and health data integration and standardisation.

The Senior Software Engineer role will be responsible for leading the delivery of research software development activities within the CSIRO' AEHRC program. This will include managing and leading improvements in technology choice, engineering practices and quality taking into account the relevant regulations, for example the Australian Privacy Principles and TGA.

The role will work with internal and external stakeholders to scope research software projects, develop implementation pathways and lead implementation activities.

Duties and Key Result Areas

- Lead the design and development of research software projects, including the development of internal capability for developing software to tackle issues in the collection, integration & analysis and visualisation of clinical & other health data.
- Work closely with stakeholders to establish their software requirements and meet their scientific goals.
- Setting clear expectations around data quality to all stakeholders, particularly in the early stages of projects with large & complex datasets.
- Deploy, maintain, and support applications, web services, and cloud development platforms in support of scientific projects
- Work with program leadership and the development team on a strategy for continuous improvement in the quality of software deliverables.
- Provide coaching, on-the-job training and instruction to colleagues, on activities pertaining to software development to ensure upskilling of staff.
- Participate in developing the strategic direction of research software engineering at CSIRO
- Under general direction participates in planning major projects including allocating and directing tasks, managing resources to meet project objectives in a timely manner.
- Adhere to the spirit and practice of CSIRO's Values, Code of Conduct, Health, Safety and Environment procedures and policy, Diversity initiatives and Making Safety Personal goals.
- Other duties as directed.

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.

Selection Criteria

Essential

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

1. A relevant bachelor's degree in Computer Science or equivalent relevant work experience in a relevant field.
2. Demonstrated experience designing, developing and deploying large, complex software systems
3. Demonstrated experience developing full stack web applications using modern web frameworks such as Angular or VUE.
4. Demonstrated experience developing mobile phone applications natively or using a cross platform technology.
5. Experience with best practice software development methodologies and tools including source control (Git)
6. Evidence of use of industry-standard software processes for code quality, change management and data science model delivery, deployment and ongoing maintenance, preferably including experience with health system data and FHIR.

Desirable

1. Experience with Agile software development
2. Demonstrated experience in mentoring, project leadership and/or technical leadership.
3. Experience developing software for scientific computing

4. Prior experience in developing digital health applications and standards.

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!](#)

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

Find out more about CSIRO [Health and Biosecurity](#)