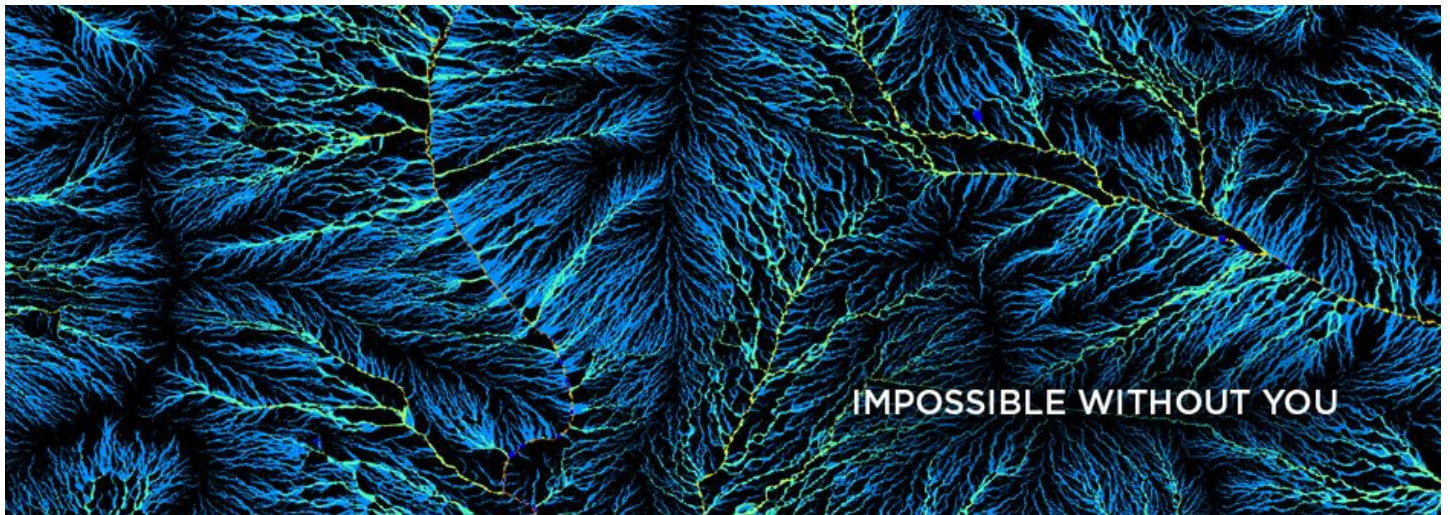




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Software Engineer Genomics Ontology

CSIRO ★ 3.8 • 143 reviews

Melbourne VIC

Engineering - Software (Information & Communication Technology) • Government - Federal (Government & Defence)

AU\$66k – AU\$98k plus up to 15.4% super • Full time

Posted 23d ago

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Job description:

Acknowledgement of Country

CSIRO acknowledges the Traditional Owners of the land, sea and waters, of the area 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](#)

The Opportunity

- **Certified Amazon Web Services, Microsoft Azure and/or Google Cloud Platform user**
- **Evidence of community engagement - Kaggel, blog, GitHub, YouTube**
- **Join CSIRO's AEHRC! A truly collaborative, flexible and inclusive workplace**

The Australian e-health research centre (AEHRC) is CSIRO's digital health research unit delivering innovation to the health system. It is the largest eHealth research group in Australia with more than 100 research scientists working with clinicians and industry to identify the clinical and/or health challenges. AEHRC is worldwide unique in covering the full value chain from basic science through to clinical application and assessing their impacts on Australian and international health systems.

As the Software Engineer Genomics Ontology, you'll join the Transformational Bioinformatics Group within AEHRC and will be working closely with the external collaborators and stakeholders to innovate new approaches for standardizing clinical genomics and developing bioinformatics solutions using the latest in cloud and BigData infrastructure. You'll have the opportunity to toggle between Health Informatics and Transformational Bioinformatics groups to bridge the gap between genomic data handling and terminology support and create fit-for-purpose platform that supports the clinical role out of phage therapy in Australia.

Your duties will include:

- In collaboration with scientists, designing and implementing innovative cloud architecture to carry out impactful research and cater for the challenges in the health and life science domain (fast turn-around-time and large volumes of data).
- Implementing ML solutions to biological research questions; Exploring novel ML methodological approaches to research questions.
- Be knowledgeable about cloud services across multiple vendors (specifically AWS, Azure, GCP).
- Preparing appropriate documentation through repositories (e.g. bitbucket), project boards (e.g. trello), online communities (e.g. gist) and contributing to reports, scientific papers and blog posts.
- Communicating 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 a few other duties appropriate to the role.

Location: Sydney NSW; Adelaide S; Brisbane QLD; Canberra ACT; or Melbourne VIC

Salary: * AU\$66k - AU\$98k plus up to 15.4% superannuation

Tenure: Specified term of up to 3 years

Reference: 85181

* This position is open across two CSOF levels CSOF3 and CSOF4 and required competencies are detailed in the position description for each of the levels.

To be considered you will need:

1. A relevant degree (or will shortly satisfy the requirements of a bachelor's degree) or equivalent relevant work experiences in a relevant discipline area, such as Information Technology, Bioinformatics, Electrical Engineering, and Data Science.
2. Proven impact from developing solutions on public cloud infrastructure (AWS, Azure, GCP, Alibaba cloud) or advanced high-performance computing (HPC) with demonstrated software engineering practices (use of repositories, deployment standards, efficiency analysis).
3. Evidence of advanced data analytics and programming capabilities in more than one language relevant for bioinformatics (e.g. Python, Java, C++, Scala, BASH, R, Julia).
4. High-level written and oral communication skills with the ability to represent the research team effectively internally and externally, including the presentation of research outcomes at national and international conferences.
5. A sound history of publication in peer-reviewed journals and/or authorship of scientific papers, reports, grant applications or patents.
6. A record of science innovation and creativity, including the ability & willingness to incorporate novel ideas and approaches into scientific investigations.

For full details about this role please view the [Position Description](#).

Eligibility

Applications for this position are open to Australian/ New Zealand citizens, Australian permanent residents and Australian temporary residents currently residing in Australia with a valid working visa to cover the length of the specified term position without the requirement of visa sponsorship from CSIRO.

Appointment to this role is subject to the provision of a national police check and may be subject to other security/medical/character requirements.

Flexible Working Arrangements

We work flexibly at CSIRO, offering a range of options for how, when and where you work.

Diversity and Inclusion

We are working hard to recruit people from diverse backgrounds and ensure that all our people feel supported to do their best work and feel empowered to let their ideas flourish.

About CSIRO

At CSIRO Australia's national science agency, we solve the greatest challenges through innovative science and technology. We put the safety and wellbeing of our people above all