# Software Engineer – Developer ARGA – CSOF5

The following information is for applicants

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| **Advertised Job Title:** | Software Engineer |
| **Reference Number:** | 88671 |
| **Classification:** | CSOF 5 |
| **Salary Range:** | AU $102,724 to AU $111,165 plus up to 15.4% superannuation (This position may consider both full-time and part-time arrangements, between 0.5 to 1.0 FTE. In case of a part-time arrangement, salaries and superannuation will be calculated pro rata) |
| **Location:** | Canberra or Brisbane preferred but will consider all locations where CSIRO have a significant presence |
| **Tenure:** | Specified Term of 18 months |
| **Relocation assistance:** | Will be provided to the successful candidate if required |
| **Applications are open to:** | Australian Citizens and Permanent Residents Only |
| **Functional Area:** | Technical Services |
| **% Client Focus - Internal:** | 80% |
| **% Client Focus - External:** | 20% |
| **Reports to the:** | Systems Team Lead; Applications Team Lead |
| **Number of Direct Reports:** | 0 |
| **Delegation Rank** | N/A |

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| **Role Overview:** |
| The Australian Reference Genome Atlas is an indexing service for aggregating, discovering, filtering, and accessing complex life science data. We are innovating a new platform and are looking for a talented developer to be part of our team delivering products that support the bioinformatics, genomics, biodiversity, agriculture, and biosecurity research sectors. Joining a small, but vibrant, team of dedicated people and using contemporary open-source products and cloud technologies, in this role you will:* Create, maintain and develop code to support the new ARGA platform and services
* Undertake and practice contemporary software engineering practices
* Produce robust software which meets technical and non-technical requirements
* Work collaboratively with a team of product managers, research scientists and developers to meet project and product goals.

**About the Australian Reference Genome Atlas.**The Australian Reference Genome Atlas (ARGA) is an NCRIS-enabled platform powered by the [Atlas of Living Australia](https://ala.org.au/) (ALA), in collaboration with [Bioplatforms Australia](https://bioplatforms.com/) and the [Australian BioCommons](https://www.biocommons.org.au/), with investment from the [Australian Research Data Commons](https://www.ardc.edu.au/) (ARDC) (DOI). ARGA integrates data sourced from a number of international repositories, including [NCBI GenBank](https://www.ncbi.nlm.nih.gov/genbank/), [EMBL-ENA](https://www.ebi.ac.uk/ena/browser/home) and [Bioplatforms Australia](https://data.bioplatforms.com/).**About our project partners.**The [Atlas of Living Australia](https://www.ala.org.au) is Australia’s national biodiversity data infrastructure. It is made possible by contributions from its partners, is supported by [NCRIS](https://www.education.gov.au/national-collaborative-research-infrastructure-strategy-ncris), is hosted by [CSIRO](https://csiro.au/), and is the Australian node of [GBIF](https://www.gbif.org/en/).[Bioplatforms Australia](https://bioplatforms.com) is a non-profit organisation that invests in genomics, proteomics, metabolomics and bioinformatics infrastructure and expertise. It is funded by [NCRIS](https://www.education.gov.au/national-collaborative-research-infrastructure-strategy-ncris) and hosted by The University of Melbourne.The [Australian BioCommons](https://www.biocommons.org.au/homepage) provides a collaborative and distributed digital infrastructure and service capability for bioinformatics and bioscience research at a national scale. It is supported by [Bioplatforms Australia](https://www.bioplatforms.com/) and funded by [NCRIS](https://www.education.gov.au/national-collaborative-research-infrastructure-strategy-ncris). |

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| **Duties and Key Result Areas:** |
| * Create, develop, and maintain high quality code that meets functional and non-functional requirements
* Work collaboratively with team members to solve technical problems and deliver to customer needs and expectations
* Undertake best-practice software engineering practices including CI/CD, create and maintain unit, integration and functional tests and dev-ops practices.
* Other duties as directed
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| **Selection Criteria:** |
| **Essential**CSIRO believes that innovation thrives on the diversity of thought, ideas, and lived experiences being brought to the table by all to solve Australia’s greatest challenges. CSIRO is an Equal Opportunity employer working hard to recruit world-class talent that represents the diversity across our society, empowering staff to bring their whole selves to work and supporting everyone to enable their ideas to flourish. CSIRO recognises that a candidate's capability to perform a role can be demonstrated in a variety of ways and encourages candidates to address the role criteria with this in mind. **Essential Criteria:**1. Demonstrated experience in one or more of the following languages: Java, Python, JavaScript or Groovy.
2. Experience with one or more web frameworks: React.js, Angular, Grails or Spring; experience with Linux OS.
3. Working knowledge of relational and non-relational databases and SQL.
4. Experience with git version control system (or equivalent).
5. The ability to work both independently and as part of a team, taking initiative and exercising sound judgement in resolving issues to achieve desired results.

**Desirable Criteria:**1. Experience with configuration management or infrastructure as code tools, such as Ansible, Terraform, CloudFormation, Puppet or Chef.
2. Experience developing and deploying software in a cloud environment, such as AWS, GCP, Azure or OpenStack, and experience with agile methodologies.
3. Experience or knowledge of cyber security concepts and best practices.
4. Experience with genomics/bioinformatics and/or biodiversity data.

**Values and Behaviours:**1. **People First:** We put the safety and wellbeing of our people above all else, and we know that diversity is the compass to navigate innovation. (*Respect, Caring, Inclusive*)
2. **Trusted:** We earn trust everywhere, because we deal only in facts, and we operate with unwavering integrity. (*Partnering, Cooperative, Humble*)
3. **Further Together**: We collaborate widely and generously to boldly take on challenges that are bigger than ourselves. (*Curious, Adaptive, Entrepreneurial)*
4. **Making it Real:** We don't just do research – we deliver solutions that create change in our world. (*Accountable, Authentic, Courageous*)

**Pre-Requisites:**1. **Education/Experiences:** Tertiary qualification in Science, Engineering, Computer Science, or other relevant field, or equivalent experiences.
2. **Communication:** Excellent communication skills, both written and oral, including the ability to identify and influence critical stakeholders to gain support for contentious proposals or ideas.
3. **Behaviours:** A history of professional and respectful behaviours and attitudes in a collaborative environment.
4. **Adaptability:** The ability to effectively manage competing priorities simultaneously and carry out non-routine tasks independently.
5. **Problem Solving:** Proven ability to investigate underlying issues of complex and ill-defined problems and develop appropriate responses by adapting/creating and testing alternative solutions.

**Eligibility:** The successful applicant will be required to obtain and provide a National Police Check or equivalent.To be eligible for this position you must be willing and able to travel occasionally**.** |

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| **Other Information:** |
| **How to Apply**Please apply for this position online at [www.csiro.au/careers](http://www.csiro.au/careers). You may be asked to provide additional information (online) relevant to the selection criteria. If so, then responding will enhance your application so please take the time to provide relevant succinct answers. Applicants who do not provide the information when requested may not be considered.If you experience difficulties applying online call 1300 984 220 and someone will be able to assist you. Outside business hours please email: csiro-careers@csiro.au. **Cover letter**: Please write a cover letter with your application outlining how you meet the selection criteria and explaining your motivation for applying.**Referees**: If you do not already have the names and contact details of two previous supervisors or academic/ professional referees included in your resume/CV please add these before uploading your CV.**Contact:** If after reading the selection documentation you require further information please contact:Kathryn Hall via email: kathryn.hall@csiro.au or phone: 0402 165 901.**Flexible Working Arrangements**We work flexibly at CSIRO, offering a range of options for how, when and where you work. Talk tous about how this role could be flexible for you. [Work life balance](https://www.csiro.au/en/Careers/The-CSIRO-Experience/Balance).**Diversity and Inclusion**We are working hard to recruit diverse people and ensure that all our people feel supported to dotheir best work and feel empowered to let their ideas flourish. [Diversity and Inclusion Strategy](https://www.csiro.au/en/About/Policies-guidelines/Working-at-CSIRO/Diversity-strategy).We are committed to the safety and wellbeing of all children and young people.**About CSIRO**At CSIRO, Australia's national science agency, we solve the greatest challenges through innovativescience and technology. Find out more! [www.csiro.au.](http://www.csiro.au/) The ARGA Project is led by the Atlas of Living Australia (ALA). ALA is a business unit under the National Collections and Marine Infrastructure (NCMI) of CSIRO. We are Australia’s national biodiversity data aggregator funded under the National Collaborative Research Infrastructure Strategy (NCRIS). Visit our [website](https://www.ala.org.au/) to know more or follow us on [Twitter](https://twitter.com/atlaslivingaust?lang=en) for more information about the biodiversity data of Australia. |