**Software Engineer**

Role summary for potential applicants

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| Advertised Job Title**:** | Software Engineer |
| Reference Number**:** | 51361 |
| Classification: | CSOF5 |
| Salary Range: | AU $95,369 to AU $103,205 plus up to $15.4% superannuation |
| Location**:** | Eveleigh, NSW |
| Tenure: | Indefinite |
| Relocation assistance**:** | Will be provided to the successful candidate if required |
| Applications are open to: | Australian/New Zealand Citizens and Permanent Residents only |
| **Functional Area:** | Research Projects |
| **% Client Focus - Internal:** | 60% |
| **% Client Focus - External:** | 40% |
| Reports to the: | Confidential Computing Team Leader |
| Number of Direct Reports: | 1 |

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| **Role Overview:** |
| Confidential Computing at Data61 brings together engineering and research expertise from different disciplines including Cryptography, Machine Learning, Analytics and Software Engineering. The team is focused on creating a new type of “privacy-preserving” data science capability for Data61’s various enterprise and government customers and partners.  The Software Engineer will collaborate with the team building revolutionary analytics technology at Data61 and design secure, elegant, robust and scalable solutions to unsolved problems in the field of confidential computing. team  We believe that good ideas come from anywhere in the organisation. We offer a safe and respectful work environment and promote a culture of openness, equality, respect, and inclusion. We value diversity in all forms and welcome applications from people of all ages, including people with a disability, and those who identify as LGBTI. |

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| **Duties and Key Result Areas:** |
| * Design and build back end systems and ensure their implementation is secure, efficient and maintainable. * Have the ability to think creatively, prototype new ideas and see them through to production. Provide technical direction, take ownership of projects, present ideas and foster creativity in others. * Collaborate with engineering, research, UI/UX and business teams. * Be a valued member of a multidisciplinary, regionally dispersed software engineering team. |

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| **Selection Criteria:** |
| *Under CSIRO policy only those who meet all essential criteria can be appointed*  ***Pre-Requisites:***   * **Education/Qualifications:** Bachelor degree in Software Engineering, Computer Science or in a related scientific or engineering discipline. * **Communication:** High-level 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. * **Behaviours:** A history of professional and respectful behaviours and attitudes in a collaborative environment. * **Adaptability:** The ability to effectively manage a number of competing priorities simultaneously, and carry out non-routine tasks independently. * **Problem Solving:** Proven ability to investigate underlying issues of complex and ill-defined problems and develop appropriate responses through abstract thinking and using creative solutions.   ***Essential criteria***   * Proven expertise in REST API design and implementation using current web server development tools and methodologies. * Demonstrated strong understanding of current technical best practice. * Experience developing robust and secure applications. * Capability developing in Python * Demonstrated professional experience in bringing projects to market   ***Desirable criteria***   * We love code examples. If you have anything that can be reviewed, such as open source (e.g. on Github or BitBucket), please do mention it. * Proficient oral and written communication skills * Prior experience with two or more of the following: TLS, Docker, Kubernetes, flask, microservices, postgresql, Python, Java   **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** |

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| **Other Information:**  **Our Tech Stack**  **Cloud based micro service infrastructure using** - docker, kubernetes, AWS  **Server side apps written in** - Java8, Python3  **Front end built with** - React, Material  **Continuous integration** **using** - Jenkins, Travis  **Other tech** - elasticsearch, postgresql, celery, redis, nginx, flask |
| **How to Apply**  Please apply for this position online at <https://jobs.csiro.au/> and enter requisition number 49204. Internal applicants please apply via ‘Jobs Central’ in SAP (click ‘Recruitment’)  Please load your CV (Maximum 2MB). You may also be required to respond to some screening questions.  Where text responses are required, to avoid being timed out of the system we recommend that you prepare your responses off line and paste them into the appropriate spot prior to submitting your application.  If you experience difficulties applying online call 1300 984 220 for assistance. Outside Australian business hours please email: [careers.online@csiro.au](mailto:careers.online@csiro.au).  **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:  Brian Thorne via email: [Brian.Thorne@data61.csiro.au](mailto:Brian.Thorne@data61.csiro.au) or phone: 02 9490 5666. Please do not email your application directly. Applications received via this method will not be considered.  **About CSIRO**  Australia is founding its future on science and innovation. Its national science agency, the Commonwealth Scientific and Industrial Research Organisation (CSIRO) is a powerhouse of ideas, technologies and skills for building prosperity, growth, health and sustainability. It serves governments, industries, business and communities across the nation.  Find out more! [www.csiro.au](http://www.csiro.au).  **Data61** is the largest data innovation group in Australia. Bringing together our Digital Productivity team and National ICT Australia (NICTA), we are unrivalled in our intellectual capital and our network with the global technology marketplace. Find out more! <http://www.csiro.au/en/Research/D61> |