**Research Projects – CSOF5**

Role summary for potential applicants

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| Advertised Job Title**:** | Front End Developer |
| Reference Number**:** | 33302 |
| Classification | CSOF5 |
| Salary Range: | AU $92K - $100K plus up to 15.4% superannuation |
| Location**:** | Eveleigh, Sydney 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:** | 20% |
| **% Client Focus - External:** | 80% |
| Reports to the: | Team Leader – Smart Infrastructure Engineering |
| Number of Direct Reports: | 0 |

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| **Role Overview:** |
| The Front End Developer in the Engineering & Design program will work closely with software engineers, researchers and our user experience team to build products from Data61 research and technology. The role of the Front End Developer is to produce innovative software for commercial and government customers. As part of the Smart Infrastructure Engineering team, you will develop user interfaces for a range of applications, from monitoring of civil infrastructure to precision agriculture.A strong, demonstrated understanding of current technical best practice, as well as usability and accessibility principles are essential for this role. Strong communication skills will also be highly regarded, as a part of this role, you will often be the link between our UX team and the application developers working on a project. |

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| **Duties and Key Result Areas:** |
| * Lead development of front end software for systems, building on Data61’s research as part of Data61 business-focussed project teams
* Work collaboratively with project team members and others across Data61 to ensure that project goals and Data61’s goals are achieved
* Follow and implement recognised software engineering best practices including documentation, test-driven development and automation for ensuring software quality, performance, accessibility, maintainability and reusability
* Contribute to open source development and participate in the broader development community as appropriate
* Contribute to Data61’s engineering discipline by improving use of software development tools, practices and culture
* Maintain high ethical and performance standards
* Adhere to 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
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| **Selection Criteria:** |
| *Under CSIRO policy only those who meet all essential criteria can be appointed****Pre-Requisites:**** **Education/Qualifications:** ArelevantBachelor degree in a scientific or engineering discipline such as Computer Science or equivalent commercial experience in software engineering
* **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.

***Essential criteria***1. Demonstrated high degree of expertise in JavaScript, HTML and CSS
2. Experience with contemporary software development tools and practises: version control, unit testing, automated testing, issue tracking
3. 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

***Desirable criteria***1. Design of complex interactive applications driven by RESTful APIs
2. Front end frameworks such as React, Aurelia, Angular 2
3. Development for a range of browser environments, including mobile
4. CSS pre- and post-processors (LESS, SASS, PostCSS)
5. Modern JavaScript tooling (ES6, webpack, browserify) and unit testing frameworks
6. Compile-to-JavaScript languages such as Typescript, Purescript, Elm, Scala.js
7. Cloud deployment (AWS EC2, S3, cloudfront)
8. UI/UX design experience; confidence in making design choices
9. Dynamic graphics manipulation, particularly using D3 or other SVG libraries
10. Agile project management

**CSIRO Values:**As Australia’s Innovation Catalyst, CSIRO has strategic actions underpinnedby our values. In your application and at interviews you will need to demonstrate behaviours aligned with these values:* Integrity of Excellent Science
* Trust & Respect
* Creative Spirit
* Delivering on Commitments
* Health, Safety & Sustainability

*In Data61, our leaders will be expected to demonstrate the following values:** **Hierarchy**: Country, Company, Team, Individual
* **Openness**: Open debate, collaboration, full commitment
* **Learning**: Calculated risks, institutionalise learning, fast cadence
* **Impact**: Tackle hard problems, create the future, focus on outcomes
* **Stewardship**: Lead, make each function and co. stronger over time
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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 will need to upload both your cover letter and resume/CV as one document, expressing your interest in the role and broadly addressing your suitability. Please include, with publicly available URLs if possible, examples of your best work (completed website / app projects, personal website, github, codepen, etc). Should your application proceed to the next step, you may be asked to provide additional information, including references.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**Contact:** If after reading the selection documentation you require further information please contact:* Melissa Sunteo via email: Melissa.Sunteo@data61.csiro.au or phone: 02 9490 5849. 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). **CSIRO’s** [**Data61**](https://www.data61.csiro.au/) business unit is the largest data innovation group in Australia, bringing together approximately 600 research and development staff working in digital technologies to create benefit for Australia. Data61 develops Australia's future leaders with its strong 300+ PhD student program in collaboration with our best universities across Australia.  |