# Position Description

## Research Projects – CSOF6

The following information is for applicants

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| Advertised Job Title**:** | Front End Engineer |
| Job Reference: | 57663 |
| Relocation Assistance**:** | Will be provided to the successful candidate if required. |
| Applications Are Open To: | * All Candidates
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| Percentage of Client Focus - Internal: | 50% |
| Percentage of Client Focus - External: | 50% |
| Reports to the: | Group Lead – Graph Analytics Engineering |
| Number of Direct Reports: | 0 |
| Name and Contact Details For Applicant Enquiries  | **Alex Collins** Email Alex.Collins@data61.csiro.au Phone 02 9490 5963 or **Xavier Ho** Email: Xavier.Ho@data61.csiro.au Phone: 03 9545 2145 |
| Contact Details For Applying | Call 1300 984 220 or email careers.online@csiro.au.  |
| How to Apply: | Please apply online at [jobs.csiro.au](https://jobs.csiro.au/) and enter the requisition number**.** Internal applicants please apply via ‘Jobs Central’ through the ‘People Hub’ icon Please do not email your application directly to Alex Collins or Xavier Ho.   Applications received via this method will not be considered by the selection panel. |

## Role Overview:

We have an exciting new opportunity to join the Graph Visualisation team in Data61.

CSIRO’s Data61 Graph Visualisation team are currently designing and building a new data visualisation platform that will have real impact for Australia.

As a Front End Engineer in the StellarGraph project you will work together creating practical data visualisation products for Australian government and industry. In this role you can take ownership of the area, experiment with new technologies, and learn and grow to your full potential.

## Duties and Key Result Areas:

* To design and build beautiful user interfaces and to ensure their implementation is efficient, elegant and maintainable.
* Implement graph visualisation applications using front-end technologies.
* Experiment with technologies, evaluate and present the results.
* Collaborate effectively with engineering, research, UI/UX and product teams.
* 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.
* Communicate openly, effectively and respectfully with all staff, clients and suppliers in the interests of good business practice, collaboration and enhancement of CSIRO’s reputation.
* Work collaboratively as part of a multi-disciplinary, often regionally dispersed research team, and business unit to carry out tasks in support of CSIRO’s scientific objectives.
* Adhere to the spirit and practice of CSIRO’s Code of Conduct, Health, Safety and Environment plans and policies, Diversity initiatives and Zero Harm goals.
* Other duties as directed.

## Competencies:

1. **Teamwork and Collaboration: Cooperates with others to achieve organisational objectives and may share team resources in order to do this. Collaborates with other teams as well as industry colleagues.**
2. **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.**
3. **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.**
4. **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.
5. **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.**
6. **Adaptability:** Demonstrates flexibility in thinking and adapts to, and manages, the increasing rate of organisational change by adjusting strategies, goal and priorities.

## Selection Criteria:

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

1. Bachelor degree in a scientific or engineering discipline such as Computer Science or equivalent commercial experience in software engineering
2. Ability to think creatively and prototype new ideas.
3. Experience with ReactJS
4. Experience with two or more of the following web technologies:
JavaScript, CSS, HTML5, SVG, ES6, TypeScript, NodeJS
5. Ability to take ownership of their project, provide technical direction, and present their ideas and foster creativity in others
6. The ability to collaborate and grow with a multi-disciplinary, regionally dispersed research and engineering team.

## Desirable Criteria:

1. Interest in data visualisation and human computer interaction
2. Interest in machine learning and networks
3. Experience mentoring junior engineers
4. Familiarity with open source development pipelines

## Special Requirements:

Appointment to this role may be subject to conditions including security/national police/medical/character clearance requirements. Applicants who are not Australian Citizens or Permanent Residents 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 imagine. We collaborate. We innovate. To find out more visit us [online](http://www.csiro.au/)!

Find out more about the CSIRO [Data61](https://www.data61.csiro.au/)