# Position Description

## Research Projects – CSOF3

The following information is for applicants

|  |  |
| --- | --- |
| Advertised Job Title**:** | Junior Software Engineer |
| Job Reference: | 60003 |
| Relocation Assistance**:** | Will be provided to the successful candidate if required. |
| Applications Are Open To: | [ ]  Australian Citizens Only[x]  Australian/New Zealand Citizens and Australian Permanent Residents Only* [ ]  All Candidates
 |
| Percentage of Client Focus - Internal: | 10% |
| Percentage of Client Focus - External: | 90% |
| Reports to the: | Team Leader |
| Number of Direct Reports: | 0 |
| Name and Contact Details For Applicant Enquiries  | Stephen Lindsay via email: stephen.lindsay@csiro.au or phone: +61 2 4960 6104 |
| 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  |

## Role Overview:

Research Projects staff in CSIRO collaborate in scientific and technological activities with other research staff usually by assisting with detailed planning, undertaking or assisting with experimental, observational or technology development work, and in carrying out the more practical aspects of the work.

The Junior Software Engineer will join a team of electrical engineers, data scientists, computer scientists and software engineers who design, build and deliver the technologies that drive down greenhouse gas emissions, maximise the uptake of renewables, and reduce the cost of energy for Australians.

Based at the CSIRO Energy Centre at Newcastle, the Junior Software Engineer will be working in Australia's national science institution, interacting with some of Australia's largest industries, meeting with researchers and scientists from around the world, and delivering practical solutions to challenging, complex and rewarding problems.

## Duties and Key Result Areas:

* Work in a team of software engineers and research scientists on developing the next generation of the Energy Use Data Model (EUDM), which includes a set of software systems and technologies for unifying, linking, visualising and sharing energy data.
* With guidance from senior engineers, work with stakeholders to understand system requirements, develop and test software solutions, and provide system support as required.
* Develop and document software that is used by our researchers and our external clients.
* Communicate effectively and respectfully with all staff, clients and suppliers in the interests of good business practice, collaboration and enhancement of CSIRO’s reputation.
* Work as part of a multi-disciplinary, often regionally dispersed research team, to carry out tasks under limited direction in support of scientific research.
* Work collaboratively with colleagues within your team, the business unit and across CSIRO, to reach objectives.
* Provide instruction on activities pertaining to the immediate work area and responsibilities, as required.
* Adapt and/or develop original experimental methods, equipment, software, concepts and ideas in support of existing and further research.
* 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.

## Competencies:

1. **Teamwork and Collaboration: Proactively seeks and considers the ideas and opinions of others from within and outside the team to help form decisions, plans or actions.**
2. **Influence and Communication: Puts forward ideas by presenting factual information supported by data, definitions, examples, illustrations or other aids, which will assist in conveying meaning.**
3. **Resource Management/Leadership: Provides instruction and assists other staff to complete allocated tasks and activities.**
4. **Judgement and Problem Solving:** Identifies and considers the implications of a range of available alternatives in order to select the most appropriate response to problems of a familiar or recurring nature.
5. **Independence: Recognise and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).**
6. **Adaptability:** Willingness to change ideas or perceptions based on new information, contrary evidence or other people's points of view. Prepared to try out different approaches.

## Selection Criteria:

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

1. A relevant Bachelors or Masters Degree or equivalent experience in software engineering or a relevant discipline area*.*
2. Expertise with the Python programming language and client-side web technologies (HTML, CSS, JavaScript).
3. Familiarity with relational databases, server-side programming and Linux.
4. Familiarity with modern software engineering tools and practices, including the use of version control systems and testing tools/methodologies**.**
5. The ability to work effectively as part of a multi-disciplinary, regionally dispersed research team, and carry out tasks under general direction from Scientific Researchers.
6. Understanding of and commitment to sound occupational health, safety and environmental standards for a molecular laboratory and field work.
7. The ability and willingness to contribute novel ideas and approaches in support of scientific investigations.

## Desirable Criteria:

1. Experience with the following would be considered favourably: REST, React, PostgreSQL, SCRUM or other Agile methods.
2. Enthusiasm for improving energy efficiency, reducing the greenhouse-gas impact of energy systems and maximising the performance of the Australian electricity grid.

## About CSIRO:

We imagine. We collaborate. We innovate. To find out more visit us [online](http://www.csiro.au/)!

Find out more about CSIRO [Energy](https://www.csiro.au/en/Research/EF)