# Position Details

## Technical Services- CSOF4

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| The following information is for applicants | |
| Advertised Job Title | Software Research Engineer – Scientific Visualisation |
| Job Reference | 61657 |
| Tenure | Specified Term of 3 years |
| Salary Range | AU$83,687k to AU$94,679k pa + up to 15.4% superannuation |
| Location(s) | Kensington and Crawley, Perth |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | * Australian/New Zealand Citizens and Australian Permanent Residents * Australian temporary residents currently residing in Australia (visa sponsorship may be provided to eligible candidates) |
| Position reports to the | IT Manager (CSIRO) and AusSRC Program Lead (UWA) |
| Client Focus – Internal | 50% |
| Client Focus – External | 50% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Yathu Sivarajah via email at yathu.sivarajah@csiro.au  *Please do not email your application directly to Yathu Sivarajah. Applications received via this method will not be considered.* |
| How to apply | Apply online at <https://jobs.csiro.au/>  Internal applicants please apply via **Jobs Central**  If you experience difficulties when applying, please email [careers.online@csiro.au](mailto:careers.online@csiro.au) or call 1300 984 220. |

### Role Overview

The Software Research Engineer will be working as part of collaboration of CSIRO, UWA, Curtin and Pawsey Supercomputing Centre and national and international radio astronomy research groups. The Engineer develop the software and hardware architectural solutions for the visualisation of large astronomy datasets as required by the science cases of SKA, ASKAP and MWA as part of the Australian SKA Regional Centre. The position is a joint appointment between UWA (ICRAR) and CSIRO (Pawsey Supercomputing Centre).

### Duties and Key Result Areas:

* Liaise with the science stakeholders to develop software and hardware requirements.
* Develop a software solution that will enable a range of remote visualisation use-cases as part of Australian SKA Regional Centre.
* Develop architectural solutions for visualising large astronomy datasets in Pawsey Supercomputing Centre.
* Contribute adapting software solutions to visualise large-scale data in other science domains.
* Liaise with clients to determine their needs and take personal responsibility for their satisfaction and correct problems in a constructive manner.
* Under general direction, manage a facility or service supporting a large number of users, undertake a wide variety of tasks or tasks that have a high degree of technical difficulty, documenting procedures and training clients in systems and processes.
* Participate in the planning of projects and accept responsibility for carrying out major parts of the project, including data analysis, and typically make significant contributions to the interpretation and communication of results.
* Be able to proactively negotiate with external bodies.
* Utilise management expertise including the ability to plan, organise and monitor the allocation of resources across a facility.
* Develop original techniques, processes, equipment or software, especially when encountering new problems where methods are not defined and initiative is required in seeking new approaches to improve the service provided and meet client needs.
* 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 scientific objectives.
* Adhere to the spirit and practice of CSIRO’s Code of Conduct, Health, Safety and Environment procedures and policy, Diversity initiatives and Making Safety Personal goals.
* Other duties as directed.

## **Required Competencies:**

* **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.
* **Influence and Communication:** Uses knowledge of other party's priorities and adapts presentations or discussions to appeal to the interests and level of the audience. Anticipates and prepares for others reactions.
* **Resource Management/Leadership:** Allocates activities, directs tasks and manages resources to meet objectives. Provides coaching and on the job training, recognises and supports staff achievements and fosters open communication in the team.
* **Judgement and Problem Solving:** Investigates underlying issues of complex and ill-defined problems and develops appropriate response by adapting/creating and testing alternative solutions.
* **Independence:** Recognise and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).
* **Adaptability:**Copes with ambiguity or situations that lack clarity. Adapts readily to changing circumstances and new responsibilities (which may include activities outside own preferences) in the interests of achieving team objectives. Recognises the need for and undertakes personal development as a result of changes.

## **Selection Criteria**

#### Essential

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

* A relevant bachelor’s degree in Computer Science, Software Engineering or Physics.
* Substantial experience in computer graphics and scientific visualisation.
* Demonstrated expertise in software development of distributed software systems and integration.
* Excellent stakeholder engagement, high level communication skills and able to interact as a team player.

## **Desirable:**

* A postgraduate degree in Computer Science, Software Engineering or Physics.
* Knowledge of agile software development.
* Knowledge of radio astronomy.

Special Requirements

Appointment to this role may be subject to conditions including provision of a national police check as well as other security/medical/character clearance requirements.

* The successful candidate will be asked to obtain and provide evidence of a National Police Check or equivalent. Please note that people with criminal records are not automatically deemed ineligible. Each application will be considered on its merits.
* This role may require travel both nationally and internationally.

## **About CSIRO:**

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