# Position Description

## Technical Services – CSOF4

The following information is for applicants

|  |  |
| --- | --- |
| Advertised Job Title**:** | Visualisation Specialist – Pawsey Supercomputing Centre |
| Job Reference: | 60756 |
| Relocation Assistance**:** | Will be provided to the successful candidate if required. |
| Applications Are Open To: | Australian/New Zealand Citizens and Australian Permanent Residents Only |
| Percentage of Client Focus - Internal: | 80% |
| Percentage of Client Focus - External: | 20% |
| Reports to the: | Senior Visualisation Specialist |
| Number of Direct Reports: | 0 |
| Name and Contact Details For Applicant Enquiries: | Yathu Sivarajah via email: Yathu.Sivarajah@csiro.au*Please do not email your application directly to Yathu Sivarajah. Applications received via this method will not be considered.* |
| 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:

The role of Technical Staff in CSIRO is to provide support for scientific research in a diverse range of laboratory and field situations across a range of different research projects. This support consists of the application of accepted technical practices and the development of new practices. The work is usually carried out as a member of a centralised service.

As a member of the Data and Visualisation team at the Pawsey Supercomputing Centre, the Visualisation Specialist will support services related to visualisation including providing guidance, expert advice and helping users in designing and implementing analysis and visualisation workflows.

## Duties and Key Result Areas:

* Help clients with developing data visualisation pipelines.
* Continue to develop expertise in large-scale data visualisation.
* Support integration of visualisation hardware and software with data management and supercomputing infrastructure.
* Support remote visualisation and integrate remote visualisation with all the available Pawsey visualisation resources.
* Manage faults and maintenance interaction with vendors.
* Ensure effective response to service support issues.
* Ensure effective documentation for data visualisation procedures.
* Contribute to knowledge sharing across the Pawsey Supercomputing Centre.
* Assist with planning and development of events to support and promote Pawsey services.
* Liaise with clients to determine their needs and take personal responsibility for their satisfaction, correct problems promptly and 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.
* 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 plans and policies, Diversity initiatives and Zero Harm goals.
* Other duties as directed.

## CSIRO 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: 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.**
3. **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.**
4. **Judgement and Problem Solving:** Investigates underlying issues of complex and ill-defined problems and develops appropriate response by adapting/creating and testing alternative solutions.
5. **Independence: Recognise and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).**
6. **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:

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

1. A relevant tertiary qualification in a suitable engineering field, computer science or other relevant scientific discipline.
2. Knowledge in computer graphics software libraries such as OpenGL and/or VTK and/or Open SceneGraph and/or Unity.
3. Skills in modern scripting and/or programming languages.
4. Demonstrated ability to develop documentation suitable for internal reference.
5. Demonstrated ability to work with independence and self-motivation within a team environment.
6. Demonstrated ability to effectively manage a number of competing priorities simultaneously and carry out non-routine tasks independently.

## Desirable Criteria:

1. Experience in scientific visualisation tools such as ParaView and/or VisIt.
2. Research experience in a scientific discipline.

## About CSIRO:

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

The **Pawsey Supercomputing Centre** situated in Perth, Western Australia is a national world-class supercomputing and high volume data storage facility operating petascale compute and associated storage infrastructure. The Pawsey Supercomputing Centre represents an AU$80 million investment by the Australian Federal Government, and is an unincorporated joint venture of the CSIRO, Curtin University, Edith Cowan University, Murdoch University and the University of Western Australia, supported by funding from the Western Australian and Federal government. As lead agent for the Pawsey Supercomputing Centre, the CSIRO employs Pawsey Supercomputing Centre staff.