# Position Details

## Technical Services- CSOF6

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| The following information is for applicants |
| Advertised Job Title | Senior Network Engineer |
| Job Reference | 100862 |
| Tenure | Indefinite, Full-time |
| Salary Range | AU$131,113 - AU$153,639 per annum plus 15.4% superannuation |
| Location(s) | Kensington WA |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | Australian Citizens Only |
| Position reports to the | Head of Scientific Platforms |
| Client Focus – Internal | 80% |
| Client Focus – External | 20% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Stacy Tyson via email at stacy.tyson@csiro.au |
| 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 or call 1300 984 220. |

**Acknowledgement of Country**

CSIRO acknowledges the Traditional Owners of the land, sea and waters, of the areas that we live and work on across Australia. We acknowledge their continuing connection to their culture and pay our respects to their Elders past and present. View our [vision towards reconciliation](https://www.csiro.au/en/about/Indigenous-engagement/Reconciliation-Action-Plan).

**Child Safety**

CSIRO is committed to the safety and wellbeing of all children and young people involved in our activities and programs. View our [Child Safe Policy](https://www.csiro.au/en/about/policies/child-safe-policy).

### Role Overview

### The Pawsey Supercomputing Centre situated in Perth, Western Australia is a national world-class supercomputing and high capacity data storage facility operating petascale compute and associated storage infrastructure.  The Pawsey Supercomputing Research is an unincorporated joint venture of the CSIRO, Curtin University, Murdoch University and the University of Western Australia (core members), and Edith Cowan University (associate founding member), supported by funding from the Western Australian and Federal government. As lead agent for the Pawsey Supercomputing Centre, CSIRO employs Pawsey Supercomputing Centre staff.

### Pawsey’s Scientific Platforms Team is responsible for maintaining the infrastructure to fulfil the computing needs of the Australian research community and to engage with that community to make best use of the infrastructure including services that are operated on that infrastructure.

### The network is core to delivery of Pawsey’s resources to our research partners, and the Senior Network Engineer role supports a range of services such as campus switching, wireless, VPN and Pawsey-wide networking.

### Pawsey is seeking an experienced and analytical individual to join the team, focusing on the support, design and implementation of network solutions for Pawsey.  This person will need to be self-motivated, comfortable working under pressure and able to manage competing priorities.

### CSIRO offers flexible work arrangements. This role can be full time or part time and we can accommodate different start and finish times across the team. For more details on CSIRO’s “Balance” initiative see the CSIRO website.

### Duties and Key Result Areas

* Work collaboratively as part of a multi-disciplinary, regionally dispersed team to carry out tasks in support of Pawsey objectives.
* Contribute positively to stimulate and promote a team approach and develop sound working relationships with service users and business owners.
* Liaise with clients to determine their needs and take responsibility for their satisfaction, correct problems promptly and in a constructive manner.
* Keep up-to-date with emerging IT and networking trends and standards via formal and informal training and research to ensure an appropriate technical direction for the organisation and adherence within the environment.
* Provide technical advice relating to networks and integrated technology services, standards and procedures to team members and management.
* Maintain and upgrade Ethernet networks and work with AARNet and CSIRO network teams.
* Contribute towards, and lead the growth, development and updates to network infrastructure services.
* Co-ordinate and produce technical specifications, architectural documentation, project/program proposals and maintain systems documentation as required.
* Develop/implement and manage ongoing reporting related to the Pawsey network environment.
* Communicate openly, effectively and respectfully with all staff, clients and suppliers in the interests of good business practice, collaboration and enhancement of Pawsey’s reputation.
* 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.

## **Selection Criteria**

#### Essential

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

* Relevant Tertiary qualifications in IT or related discipline or equivalent relevant work experience in an Enterprise or Large-scale Research environment.
* The ability to work effectively as part of a multi-disciplinary, geographically dispersed team, and carry out tasks under general direction in support of scientific research.
* Experience in documenting networks and connected systems including topology and firewall rules.
* Experience with Data Centre facilities, infrastructure installation and cable management and hands on experience in management and deployment, configuration and operation/administration of Enterprise-grade firewalls, very high speed Ethernet network switches and routers, remote fibre links (WAN) and wireless environments to support research computing and storage utilising the following technologies at enterprise scale:
	+ - Wireless - Aruba
		- Ethernet Networking - LAN, MAN, WAN – Cisco and Arista
		- Data Centre Networking, including Cisco ACI
		- Palo Alto firewall solutions
		- Reverse Proxy platforms (Citrix ADC)
		- Networking fibre optic solutions (SM/MM)

## **Desirable**

* Experience applying Cyber Security principles in the design and implementation of enterprise and research networking solutions.
* Certifications in Ethernet Wireless, Routing & Switching.
* Ability to provide technical advice to team members, management and clients.
* Experience in applying scripting and automation to problem solving in an enterprise networking context.
* Ability & willingness to contribute novel ideas and approaches in support of scientific investigations.
* Competent in writing technical and non-technical documentation.

## **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:** 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.
* **Resource Management/Leadership:** Provides leadership that fosters an environment that encourages new ideas and provides support for the development of emerging skills. Creates trust by displaying consistency, understanding, integrity and patience. Plans, seeks, allocates and monitors resources to achieve outcomes.
* **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.
* **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.
* **Adaptability:**Demonstrates flexibility in thinking and adapts to and manages the increasing rate of organisational change by adjusting strategies, goals and priorities.

Special Requirements

Appointment to this role is subject to provision of a pre-employment background check and may be subject to other security/medical/character clearance requirements.

* The successful candidate will undertake a pre-employment background check. Please note that individuals with criminal records are not automatically deemed ineligible. Each application will be considered on its merits.
* The successful candidate will be required to obtain and maintain a security clearance at the NV1.
* The successful candidate will be required to undertake a pre-employment medical examination prior to commencement.

## **About CSIRO**

We solve the greatest challenges through innovative science and technology. Visit [CSIRO Online](http://www.csiro.au/) for more information.

CSIRO is a values-based organisation.  In your application and at interview you will need to demonstrate behaviours aligned to our values of:

* People First
* Further Together
* Making it Real
* Trusted