# Position Details

## Technical Services - CSOF5

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| The following information is for applicants |
| Advertised Job Title | Senior Full Stack Developer (Pawsey Centre) |
| Job Reference | 91153 |
| Tenure | Indefinite |
| Salary Range | AU $105,806 to AU $114,500 (pro-rata) up to 15.4% superannuation |
| Location(s) | Pawsey Centre - Kensington, Western Australia |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | Australian/New Zealand Citizens and Australian Permanent Residents |
| Position reports to the | Data Services Team Leader |
| Client Focus – Internal | 80% |
| Client Focus – External | 20% |
| Number of Direct Reports | 1 |
| Enquire about this job | Contact Sean via email at sean.fleming@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).

### Role Overview

The Pawsey Supercomputing Centre is a tier-1 high-performance computing facility accelerating scientific discoveries for Australia’s researchers. Located in Perth, Western Australia, Pawsey is currently serving scientists across the nation in domains such as radio astronomy, energy and resources, engineering, bioinformatics and health sciences. Pawsey supports Australia's commitment to the Square Kilometre Array (SKA) and Australian pathfinder projects (ASKAP and MWA). The Centre is managed through a long-standing and successful unincorporated joint venture of the CSIRO, Curtin University, Edith Cowan University, Murdoch University and The University of Western Australia, and supported by funding from the Western Australian and Federal governments. The Pawsey Supercomputing Centre has recently upgraded its computing, networking and storage capabilities in order to tackle the latest high-performance computing and large-scale data analysis challenges. The new supercomputer, Setonix, has been recognised as the most powerful public research supercomputer in the Southern Hemisphere, and is also ranked in the top5 in the globally recognised Green500 list. Pawsey is also involved in multiple future technology evaluation projects including quantum computing.

This position is an opportunity to architect solutions that will assist national and international researchers as they access and utilise Pawsey's peta-scale computing facilities. You will be working with a highly experienced team to deploy integrated solutions that will leverage the advanced computing, networking and storage infrastructure at Pawsey. Intrinsic to the position is the opportunity to learn more about the leading-edge research being done by Australian and international researchers. The position also allows for negotiation of flexible working arrangements.

### Duties and Key Result Areas

* Manage the development, deployment and maintenance of websites, back-end applications, and related APIs.
* Develop and maintain effective documentation for systems support and operating procedures.
* Manage and monitor the implementation of web-security best practises.
* Architect front-end websites for efficient access to Pawsey resources.
* Oversee the development of back-end applications and ensure effective integration with Pawsey infrastructure.
* Undertake problem solving at a high level for systems and workflows.
* Respond to and manage system support issues via request tracking.
* Contribute to knowledge sharing across the technical operations team.
* Contribute to training activities.
* 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 collaboratively with colleagues within your team, the broader CSIRO and across partner institutions to reach objectives.
* 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.

## **Selection Criteria**

#### Essential

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

1. Tertiary qualification in Science, Engineering, Computer Science or Information Technology or another relevant field.
2. Minimum of 5 years’ experience as a full-stack web developer.
3. Experience with modern MVC frameworks, such as: Django, Laravel, or Flask.
4. Experience with modern frontend frameworks, such as: React, Vue.js, or Angular.
5. Experience managing software development and deployment processes in a team.
6. Demonstrated ability to work with independence and self-motivation within a team environment.

## **Desirable**

1. Experience with Python, Git, and Atlassian Suite.
2. Experience with OpenStack and AWS technologies, including S3.
3. Familiarity with Shibboleth and SAML technologies.

## **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:** 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.
* **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:** Plans, sets and works to meet challenging standards and goals for self and/or others. Recognises where endeavours will make the most impact or difference, decides on desired outcome and sets realistic goals to reach this target.
* **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.

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 Clearance or equivalent. Please note that individuals with criminal records are not automatically deemed ineligible. Each application will be considered on its merits.

## **About CSIRO**

We solve the greatest challenges through innovative science and technology. Visit [CSIRO Online](http://www.csiro.au/) and [The Pawsey Supercomputing Centre](https://pawsey.org.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