# Position Description

## Technical Services – CSOF6

The following information is for applicants

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| Advertised Job Title**:** | Data Scientist – Data & Visualisation |
| Job Reference: | 59318 |
| Relocation Assistance**:** | Will be provided to the successful candidate if required. |
| Applications Are Open To: | * All Candidates
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| Percentage of Client Focus - Internal: | 50% |
| Percentage of Client Focus - External: | 50% |
| Reports to the: | Data Services Lead |
| Number of Direct Reports: | 0 |
| Name and Contact Details For Applicant Enquiries: | **Dr Sean Fleming**Email: Sean.Fleming@CSIRO.au Phone: **+61 8 6436 8918**  |
| 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 Pawsey Supercomputing Centre is an unincorporated joint venture comprising CSIRO and the public Western Australian Universities. Since 2000, this partnership has managed infrastructure and research engagement projects funded at both the state and federal levels, including the recent $70 million refresh in 2018. Throughout this period, staff at the centre have provided expertise in the use of its supercomputing, visualisation, high speed storage, and data transfer capabilities.

As a member of the Data and Visualisation Team at the Pawsey Supercomputing Centre, the Data Scientist will be responsible for engaging with multi-disciplinary researchers to facilitate and optimise Data Analytics workflows using Pawsey's Petascale compute and storage facilities. The Data Scientist will provide input to strategy for future planning as well as liaise with external stakeholders to promote the use of Pawsey facilities. The role will require effective communication with targeted research groups from a broad range of disciplines.

## Duties and Key Result Areas:

* Provide key input into strategic planning for Pawsey Data Analytics services
* Work with a team to ensure the effective operation of Pawsey's Data Analytics services
* Develop and maintain excellent relationships with stakeholders in the research community; promoting Pawsey services and capabilities
* Engage with other providers of research data services around Australia and internationally to seek collaborative opportunities
* Develop and maintain excellent internal relationships, including mentoring of junior staff
* Lead and contribute to delivering outcomes in data projects involving the use of Pawsey for machine learning and analytics on large data sets
* Work with researchers to advise and assist in the best practise use of Pawsey facilities for data analysis, workflows, and visualisation
* Maintain knowledge in advances and emerging trends in data analytics in the international research community
* Contribute to knowledge sharing in the Pawsey uptake working group
* Participate and contribute to relevant training in the use of Pawsey facilities and services
* 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 autonomously in support of scientific research.
* Work collaboratively with colleagues within your team, the business unit and across CSIRO, 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.

## 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:** 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
3. **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.
4. **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.
5. **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.
6. **Adaptability:**Demonstrates flexibility in thinking and adapts to and manages the increasing rate of organisational change by adjusting strategies, goals and priorities.

## Selection Criteria:

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

1. Relevant postgraduate degree or equivalent experience in a STEM field
2. High degree of knowledge in the mathematical principles behind Data Science (statistics, calculus, linear algebra).
3. High degree of experience in applied Data Science within one or more research domains.
4. Demonstrated experience with machine learning tools and techniques.
5. Demonstrated experience in programming in Python and/or R.
6. Demonstrated experience in handling large and/or complex data sets.
7. Ability to lead and contribute to data projects, provide strategic input and collaborate within a research environment
8. Creativity to solve complex analytical problems using quantitative approaches
9. Proven ability to develop and deliver technical training.
10. The ability to work within a complex multi-stakeholder environment and carry out tasks independently and with self-motivation in support of scientific research.

## Desirable Criteria:

1. Experience in programming with Spark.
2. Experience with data visualisation tools and techniques.
3. Experience in the management of data, including: metadata schemas and structured data formats.

## Special Requirements:

Appointment to this role may be subject to conditions including security/national police/medical/character clearance requirements. Applicants who are not Australian Citizens or Permanent Residents may be required to undergo additional security clearances, which may include medical examinations and an international standardised test of English language proficiency (i.e. IELTS test).- <https://ielts.com.au/>

## About CSIRO:

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

Find out more about the CSIRO [Pawsey Supercomputing Centre](https://www.csiro.au/en/Research/Facilities/Pawsey-Supercomputing-Centre)