# Position Details

## Research Projects - CSOF5

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| The following information is for applicants | |
| Advertised Job Title | Lead Data Analyst, Energy |
| Job Reference | 67962 |
| Tenure | Specified Term of 3 years  Full-time |
| Salary Range | AU$98,735 to AU$106,848 pa (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | Newcastle, NSW |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | * Australian Citizens and Permanent Residents * New Zealand Citizens who usually reside in Australia * Australian temporary residents who are currently residing in Australia (visa sponsorship may be provided to eligible candidates) |
| Position reports to the | Team leader, Data Science |
| Client Focus – Internal | 30% |
| Client Focus – External | 70% |
| Number of Direct Reports | 0 |
| Enquire about this job | Subbu Sethuvenkatraman via phone: 02 4960 6135 |
| 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

Research Projects staff in CSIRO collaborates in scientific and technological activities with other research staff usually by assisting with detailed planning, undertaking or assisting with experimental, observational or technology development work, and in carrying out the more practical aspects of the work.

The Lead Data Analyst is responsible for leading the application of data science, analytics and machine learning techniques for energy sector data. The role will involve designing and implementing data science solutions for various external and internal clients. A key component of this role includes working with stakeholders to build, validate, improve and represent data science models such as classification, deep learning, and forecasting models.

### Duties and Key Result Areas:

* Design and manage the implementation of data science solutions.
* Select the right tools and visualisations to analyse and present various datasets on the back of in-depth stakeholder engagement.
* Support continuous development of advanced analytics and machine learning tools for data forecasting.
* Implement statistical and machine learning models to turn raw data into energy domain and business insights.
* Assist with the strategic direction of CSIRO data science competencies.
* Make significant contributions to the interpretation and communication of research and collaborate on drafting presentations and written reports.
* Under general direction, participate in planning projects and accept responsibility for the scheduling and completion of major parts of projects, including allocating and directing tasks where appropriate.
* Provide coaching, on-the-job training and instruction to colleagues, on activities pertaining to the immediate work area and responsibilities, allocate activities, direct tasks and manage resources to meet objectives, as required.
* 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:** 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.

## **Selection Criteria**

#### Essential

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

1. Bachelor’s degree in statistics, machine learning, software engineering, computer science or data science.
2. A minimum of 3 years of relevant data science/analysis work experience aligned to key result areas (listed above).
3. Demonstrated ability to write research code using languages such as R, Python.
4. Practical/demonstrated experience in at least three of the following areas; deep learning, clustering, classification, time series analytics, big data, data management, cloud computing infrastructures, data visualisation tools, software engineering tools such as Spark or Shiny.
5. An enthusiasm and aptitude for applied research solving current problems for commercial partners.

## **Desirable:**

1. Five or more years of relevant data science/analysis work experience in key result areas.
2. Experience with energy domain data, especially time series consumption, demographic, geographic and weather data.
3. Experience with big data and/or cloud computing infrastructures.
4. Experience with SQL and database design.

Special 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.

## **About CSIRO:**

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Find out more about CSIRO [Energy](https://www.csiro.au/en/Research/EF)