# Position Details

## Research Projects- CSOF6

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| The following information is for applicants | |
| Advertised Job Title | Senior Geospatial Data Analyst |
| Job Reference | 95982 |
| Tenure | Indefinite  Full-time |
| Salary Range | AU$121,455 - AU$142,321 per annum (pro-rata for part-time)  plus up to 15.4% superannuation |
| Location(s) | 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 | Team Leader, Geodata Analytics Research |
| Client Focus – Internal | 50% |
| Client Focus – External | 50% |
| Number of Direct Reports | 0 |
| Enquire about this job | Ben.Clennell@csiro.au or phone +61 8 64368599 |
| 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. |

**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 role of Research Projects staff in CSIRO is to collaborate 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. At senior levels, Research Projects staff may be involved in providing consulting services, science and technology management and/or industry liaison.

The world is experiencing an unprecedented change in the way energy is generated and used. Australia is endowed with abundant energy resources which can not only supply both Australia’s but much of the region’s energy needs. The challenge is how can these resources be developed sustainably within a low emissions future? At CSIRO Energy we are charting Australia’s energy future and working on new approaches and technologies that will enable it.

In the role of Senior Geospatial Data Analyst, you will be responsible for:

* Coordination of Geospatial Data Analytics activities in the research team, and in support of projects across the Energy Resources Program and in support of CSIRO’s Missions.
* Collation of raw data from a wide range of sources including existing databases, APIs, tabulated data, and data from techno economic analysis.
* Integration and transformation of these data to create derivative outputs which provide insights into key economic, engineering and geological questions.
* Production of digital products, maps and presentations of results to clients and internally.
* Creating geospatial data projects in ArcGIS (and other software tools) to create impactful products including dynamic maps, interactive visualizations, dashboards and reports.
* Providing mentoring of junior staff and support for peers who develop and use geospatial information systems.
* Contribute to team and group resource management, strategic planning and by leading strategic R&D projects to develop new capabilities in geodata analytics.

The datasets will include both non-spatial and spatial data and therefore demonstrated proficiency with both database systems and spatial data tools is essential. In particular you will be working with existing microsoft Access / SQL databases.

As a key member of the Geodata Analytics Research team you will have the opportunity to develop skills in data modelling, statistics and programming in support of growth areas of applied research, development and technology demonstration supporting the transformation of Australia’s economy to net zero emissions.

### Duties and Key Result Areas

* 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’s scientific objectives.
* Create geospatial data projects in ArcGIS (or other geospatial tools) to create impactful products including dynamic maps, dashboards and reports, with a focus on energy systems including onshore and offshore oil and gas, energy storage, geo sequestration and energy systems integration.
* Data management activities including data QA/QC and curation of legacy and newly created datasets.
* At the higher level, participate in project scoping and planning, making significant contributions to the research or technological direction, and may advise on the level and type of services that are provided.
* At the higher level, may initiate and maintain collaborative relationships with external researchers and experts, manage contracts and transfer technology to industry.
* 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 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. Bachelor’s or Master’s degree in science, engineering or mathematics, information technology or other relevant area or an equivalent combination of qualifications and work experience.
2. At least five years of experience with geospatial data analysis, mapping and modelling, and specifically familiarity with ESRI ArcGIS software.
3. Experience with database creation and management using professional tools such as Microsoft Access, and SQL.
4. Demonstrated experience with data QA / QC.

## **Desirable**

1. Familiarity with oil and gas industry datasets including well data, geophysical data (seismic and or potential field), or other forms of geospatial data in the energy sector (electrical, gas networks, emissions sources).
2. Experience with geospatial and geostatistical modelling tools.
3. Programming skills in Python or other relevant programming / scripting languages.

## Evidence of direct engagement with clients and managing client relationships.

## **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 team 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:** 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:** 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.

## **About CSIRO**

We solve the greatest challenges through innovative science and technology. Visit [CSIRO Online](http://www.csiro.au/) and [CSIRO](https://www.csiro.au/en/research/technology-space/energy) Energy 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