# Position Description

## Geographical Information System and Data Analyst

## Research Projects – CSOF4

The following information is for applicants

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| Advertised Job Title**:** | Geographical Information System and Data Analyst |
| Job Reference: | 61192 |
| Relocation Assistance**:** | Will be provided to the successful candidate if required. |
| Applications Are Open To: | Australian Citizens Only |
| Percentage of Client Focus - Internal: | 20% |
| Percentage of Client Focus - External: | 80% |
| Reports to the: | Team Leader – Resource Planning and Optimisation |
| Number of Direct Reports: | 0 |
| Name and Contact Details For Applicant Enquiries  | Dr Andrew Higginsvia email: Andrew.Higgins@csiro.au |
| 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:

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. Research Projects staff may be involved in providing consulting services, science management and/or industry liaison.

The Transport Network Strategic Investment Tool (TraNSIT) was developed by CSIRO to inform infrastructure investments for government and industry. Over the past year and projecting into the next two years, there is a significant increase in the external demand for various applications of TraNSIT in road and rail. These include projects with councils, rail companies, ports, funding bodies (e.g. MLA, Hort Innovation), farming associations, federal and state government. More information about TraNSIT can be found in [www.csiro.au/TraNSIT](http://www.csiro.au/TraNSIT)

The Geographical Information System and Data Analyst position will play a key role in these projects and prospective projects and will increase the capacity of the project team to apply TraNSIT for various clients and to further improve the tool. The position will also be required to engage with numerous stakeholders to capture model data, and synthesise the outputs for reporting.

## Duties and Key Result Areas:

* Stakeholder engagement to capture data for various client applications.
* Run the TraNSIT computer models and synthesise outputs into spatial maps, tables and other diagrams for clients.
* Generate input data (e.g. commodity data, supply chains, transport network parameters) gathered from stakeholders, and consolidate this into TraNSIT. Data will be gathered from stakeholders for existing commodities in TraNSIT as well as new commodities (e.g. minerals, fuels).
* 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 under limited direction in support of scientific research.
* Work collaboratively with colleagues within your team, the business unit and across CSIRO, to reach objectives.
* Allocate activities, direct tasks and manage resources to meet objectives.
* Foster open communication, provide coaching and on-the-job training to both support and research colleagues, as required, and provide recognition and acknowledgement for staff achievements.
* Adapt and/or develop original experimental methods/equipment/software/concepts/ ideas in support of existing and further research.
* 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.

## 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: 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.**
3. **Judgement and Problem Solving:** Investigates underlying issues of complex and ill-defined problems and develops appropriate response by adapting/creating and testing alternative solutions.
4. **Independence: Recognise and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).**
5. **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:

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

1. Bachelor degree in a scientific or engineering discipline such as Computer Science or Mathematics and at least 12 months of work experience in a relevant field.
2. Expertise in spatial data analysis and mapping using ArcGIS, particularly using network analysis in the context of transport and land use.
3. Demonstrated experience in analysing and documenting large data sets from a variety of stakeholders.

## Special Requirements:

To be eligible for this position you must be willing and able to travel domestically and internationally on occasion to gather information from various stakeholders.

You must also be willing to undertake a National Police Check.

## About CSIRO:

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

Find out more about CSIRO [Land and Water](https://www.csiro.au/en/Research/LWF)