# Position Details

## Research Projects- CSOF4

|  |  |
| --- | --- |
| The following information is for applicants | |
| Advertised Job Title | Cloud and Data Engineer |
| Job Reference | 76448 |
| Tenure | Indefinite  Full-time |
| Salary Range | AU$85,361 to AU$100,710 pa (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | Canberra preferred. Other locations can be considered. |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | Australian/New Zealand Citizens and Australian Permanent Residents Only |
| Position reports to the | Senior Scientist, Earth observation (Land & Water) |
| Client Focus – Internal | 80% |
| Client Focus – External | 20% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Matt Paget (matt.paget@csiro.au, +61 2 6246 5786) or Glenn Newnham (glenn.newnham.csiro.au, + 61 3 9545 2234) |
| 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. |

### Background

### Role Overview

CSIRO is seeking a Cloud Computing Scientist or Engineer with experience in data analytics and cloud-platform solutions to join a team that will develop a computing and analytics platform for the National Bushfire Intelligence Capability (NBIC). NBIC is an initiative of the [Natural Disaster Risk Reduction Framework](https://minister.homeaffairs.gov.au/davidlittleproud/Pages/natural-disaster-risk-reduction-framework.aspx) to provide nationally consistent and authoritative bushfire hazard and risk information. NBIC will develop its products and services on a CSIRO cloud platform utilising detailed environmental modelling, satellite imagery, scalable compute infrastructure and web data services.

This new role will interface closely with the teams responsible for the NBIC modelling, information and data architecture and the CSIRO cloud platform. This position will help bridge the gap between these capability areas and ensure that the cloud platform for NBIC is fit for purpose and the NBIC science team can develop spatial modelling applications relevant to National scale bushfire risk reduction.

The successful candidate will work in an agile cross functional team and be required to interact closely with scientists and data and systems engineers to contribute to and validate platform designs. The position will provide the opportunity for continual learning and to work with a highly skilled and diverse technical and scientific team. The role will play a key part in delivering the next generation of environmental and dynamic risk assessment capability for the CSIRO and our partners.

### Duties and Key Result Areas:

* Interface and be the point of contact for technical requirements between the NBIC science and platform teams.
* Collaborate with the platform team on the development of shared platform solutions.
* Contribute to the development and maintenance of scalable data processing pipelines and robust scientific workflows.
* Provide support to users of the platform including providing instruction and training on the use of the platform tools and services.
* Contribute to written and oral communication of project outputs to internal and external stakeholders.
* Work collaboratively as part of a multi-disciplinary, regionally dispersed research team and business unit to carry out tasks in support of CSIRO’s scientific objectives.

## **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:** Allocates activities, directs tasks and manages resources to meet objectives. Provides coaching and on the job training, recognises and supports staff achievements and fosters open communication in the team.
* **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:** Recognise and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).
* **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. A tertiary qualification in a relevant discipline or vendor certification in a relevant subject (e.g., software engineering, solution architect, environmental data analytics).
2. Experience in data management, implementing data processing algorithms and automating data or system workflows.
3. A familiarity with container technologies (Kubernetes and Docker images) and scalable cloud solutions (prefer Amazon Web Services).
4. Strong programming skills in Python.

## **Desirable:**

1. Experience or interest in working in environmental research and providing solutions and software development support using satellite imagery and machine learning.
2. Demonstrated ability and willingness to develop new computing platform solutions for complex technical problems.
3. A willingness to contribute to oral and written communication with internal and external stakeholders.
4. An ability to foster and develop strong relationships in cross functional teams and with external stakeholders.

## **About CSIRO:**

We solve the greatest challenges through innovative science and technology. 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)