# Position Details

## Research Projects - CSOF5

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| The following information is for applicants | |
| Advertised Job Title | Cloud DevOps Engineer: Hazards and Climate Risk |
| Job Reference | 69615 |
| Tenure | Specified Term of 18 months.  Full time |
| Salary Range | AU$98,735 to AU$106,848 pa (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | Melbourne (Clayton or Docklands) |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | * Australian Citizens and Australian Permanent Residents * New Zealand Citizens who usually reside in Australia |
| Position reports to the | Team Leader – Natural Systems Architecture |
| Client Focus – Internal | 30% |
| Client Focus – External | 70% |
| Number of Direct Reports | 0 |
| Enquire about this job | [Mahesh.Prakash@csiro.au](mailto:Mahesh.Prakash@csiro.au) or phone: 0436 661 302  *Please do not email your application directly to Mahesh Prakash. Applications received via this method will not be considered.* |
| 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

The Natural Systems Modelling Group in CSIRO Data61 has developed a range of capabilities focussed on:

* Bushfire Predictions (<https://research.csiro.au/spark>),
* Climate Intelligence (<https://research.csiro.au/indra>),
* Floods and Flood Adaptation (<https://research.csiro.au/swift>) and
* Hazard Related Evacuation (<https://research.csiro.au/evacuation>).

These capabilities have been progressively re-architected so that they are now ready for cloud and web deployment for a range of client and stakeholder requirements. The role of the Cloud DevOps Engineer is to design and develop solution engineering in these environmental domains.

### Duties and Key Result Areas:

* Deploy and optimise specific environmental risk modelling and analytics platforms on the cloud for a range of stakeholder and client requirements in consultation with the wider team. This includes leading and contributing to:
* Development and deployment of Software as a Service (SaaS) and Analytics as a Service (AaaS) cloud architecture including relevant API architecture.
* An ongoing updating, testing and documentation regime.
* Development of a scaled cloud architecture utilising Kubernetes and related systems. This includes interacting with relevant business models in coordination with the Leadership and Business Development team.
* Development of a clearly articulated process for cloud deployment and optimisation so this can be used as a template for several related downstream products.
* Liaise with clients and stakeholders to determine their needs and take responsibility for their satisfaction, correcting problems promptly and in a constructive manner in collaboration with the team.
* Under limited direction design or develop techniques, systems or processes requiring high levels of initiative, ingenuity and skill, and appropriate communication of outcomes in the context of the core responsibilities set out above.
* Work with unique or unusual features and complexity which require original design and techniques.
* 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 scientific and technological objectives.
* 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. A bachelor’s degree in Computer Science Software Engineering or related disciplines.
2. Demonstrable experience in working with open source software and/or software in a collaborative environment.
3. Demonstrable experience in Cloud based Deployment and DevOps.
4. Demonstrable experience in Cloud scaling solutions such as Kubernetes systems.
5. Demonstrable experience in developing automated testing regimes in a cloud environment.
6. Working knowledge of scripting languages including Python.
7. Demonstrable evidence of working in a multi-disciplinary team environment.

**Desirable:**

1. Prior experience in geospatial data analysis, modelling and/or visualisation.
2. A passion for the environment and environmentally focussed applications.

Special Requirements

Appointment to this role may be subject to conditions including provision of a national police check as well as other security/medical/character clearance 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:**

We solve the greatest challenges through innovative science and technology. To find out more visit us [online](http://www.csiro.au/)!

CSIRO is a values-based organisation.  In your application and at interview you will need to demonstrate behaviours aligned to our values of:

* 1. People First
  2. Further Together
  3. Making it Real
  4. Trusted

Data61 is Australia’s digital powerhouse, formed by the recent integration of NICTA and CSIRO’s Digital Productivity business unit. We bring a multidisciplinary approach with design thinking, creativity, and behavioural economics to solve complex business problems, digital transformation and early stage commercialisation of data-centric solutions.

Data61 is a CSIRO entity, Australia’s preeminent scientific organisation. Being part of CSIRO gives us access to deep domain expertise across all of the industry sectors most likely to be disrupted over next 5-20 years.

Data61 focuses on every aspect of data research and development, from data capture [via sensor technology and robotics] to data consumption; communications and networking; infrastructure; hardware and software; cybersecurity; data statistics, modelling and analytics; decision sciences; behavioural economics and cognitive sciences—across every major industry sector.

**Find out more** – visit our [website](http://www.data61.csiro.au/)