# Position Details

## Research Scientist/Engineer- CSOF5

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| The following information is for applicants | |
| Advertised Job Title | Research Scientist – Data Privacy and Confidentiality |
| Job Reference | 67626 |
| Tenure | Indefinite  Full-time |
| Salary Range | AU$98,735 to AU$106,848 pa (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | Sydney NSW preferred. Melbourne VIC or Canberra ACT may be considered. |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | All Candidates |
| Position reports to the | Team Leader |
| Client Focus – Internal | 50% |
| Client Focus – External | 50% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Dr Thierry Rakotoarivelo via email at [Thierry.rakotoarivelo@data61.csiro.au](mailto:Thierry.rakotoarivelo@data61.csiro.au) or phone +61 2 9490 5699 |
| 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 role of Research Scientist Staff in CSIRO is to conduct innovative research leading to scientific achievements that are aligned with CSIRO’s strategies. You may be engaged in scientific activity ranging from fundamental research to the investigation of specific industry or community problems. You will have the opportunity to conduct impactful leading research and pursue new ideas and approaches that create new concepts, build and maintain networks, and play a lead role in securing project funds.

The role of the Research Scientist is to undertake world-leading research activities in the domain of Data Privacy and Confidentiality, with a focus on data-driven impactful real-life applications. This may include the development of privacy preserving algorithms for data release, privacy preserving data analytics and machine learning, as well as aspects of privacy risk quantification, and the design and development of systems for efficient private data-centric collaboration platforms.

The research scientist will contribute to Data61’s science vision which aims to achieve the exciting and challenging goals of enabling the use of data in our digital economy while preserving the privacy of individuals and the confidentiality of businesses. Research to be undertaken targets the most prestigious international publication venues and aims to educate Australia’s best undergraduate and postgraduate students.

### Duties and Key Result Areas:

* Conduct ground-breaking research in Data Privacy and Confidentiality Preserving Technology and contribute to the group’s R&D projects to deliver world-class research outcome in the form of innovative products, software, IP and top-notch competitive research publications.
* Collaborate with a team of talented and skilled researchers, engineers, and students to contribute to the strategic scientific activities of the research group.
* Communicate with internal and external partners to build privacy-aware data-driven platforms and to increase awareness of privacy risks and privacy preserving technologies.
* Build new collaborations and strengthen Data61’s network of academic, government agency and industry collaborators and partners. Engage with them to grow new privacy-related science opportunities and support commercial outcomes.
* Attract, mentor and supervise high quality Undergraduate, Master and PhD students, to carry out innovative and impactful privacy research of strategic importance to CSIRO Data61 to lead to outstanding and major scientific outcomes.
* Represent CSIRO Data61 and the research group either nationally or internationally in prestigious events to deliver talks, express leading thoughts and advertise scientific results and research outcome.
* Make significant contributions to the effective functioning of the research group and help deliver CSIRO Data61’s organisational objectives and plans.
* 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.
* 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:** 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:** 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 PhD in a relevant discipline area, such as computer science, data privacy, information theory and statistics, applied mathematics, machine learning or a related field with relevant post-PhD experience in the theoretical areas underlying privacy enhancing technologies.
2. An outstanding publication track record demonstrated through repetitive high visibility papers which are published in the top peer-reviewed conferences and journals focusing on data privacy or closely related research fields.
3. An established reputation and credibility within the online information privacy and confidentiality community, or a closely related field (e.g. data science, information theory, machine learning) with evidence of community recognition.
4. A demonstrated ability to develop and conduct research in technologies related to data privacy and confidentiality including (but not limited to) data privacy preserving systems design, information theory, applied cryptography techniques, data privacy measurement and modelling and the ability to apply them to potentially impactful applications and real-life domains including health, education, energy, data platforms, etc.
5. Demonstrated ability to collaborate and work on multi-disciplinary challenges through successful collaborations with researchers from industry and academia.
6. Demonstrated ability to work effectively as part of a research group and to foster joint innovative research in addition to the ability to carry out outstanding autonomous research.

## **Desirable:**

1. Previous experience in applying privacy and confidentiality technologies to application domains (e.g. medical, social, commercial, supply chain or energy sectors).
2. Previous research in data-driven privacy threats identification and quantification, or machine learning based algorithms for privacy preserving systems.
3. A record of science innovation and creativity plus the ability and willingness to incorporate novel ideas and approaches into scientific investigations.
4. Familiarity with privacy policies and frameworks.
5. Where the candidate does not have direct privacy preserving research experience, evidence of an ability and willingness to pivot research direction towards data privacy and confidentiality.
6. Strong English writing skills, with proven experience in client report writing.

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.
* If the successful candidate is not an Australian Citizen or Permanent Resident, they may be required to undergo additional security clearances, which may include medical examinations and an international standardised test of English language proficiency (i.e. IELTS test). https://ielts.com.au/

## **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 the CSIRO [Data61](https://www.data61.csiro.au/)