# Research Scientist/Engineer – CSOF6

Role summary for potential applicants

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| Advertised Job Title**:** | Senior Researcher, Information Security and Privacy |
| Reference Number**:** | 60469 |
| Relocation assistance**:** | Will be provided to the successful candidate if required. |
| Applications are open to: | All Candidates |
| % Client Focus - Internal: | 50% |
| % Client Focus - External: | 50% |
| Reports to the: | Group Leader |
| Number of Direct Reports: | 2 |
| Name and Contact Details For Applicant Enquiries: | Dr Dali KaafarEmail: Dali.Kaafar@data61.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’ in SAP (click ‘Recruitment’) Please do not email your application directly to Dr Kaafar.   Applications received via this method will not be considered by the selection panel. |

## Role Overview

The role of the Senior Researcher, Information Security and Privacy is to undertake world-leading research activities in the domain of Information Security and privacy with a focus on data-driven impactful research with real-life applications. This may include the development of privacy preserving algorithms for data release, privacy preserving Analytics and private data processing. This also includes aspects of quantification of privacy risks with the design and development of systems for efficient private data-centric collaboration platforms.

This role is to lead a talented team of researchers in the Data Privacy Team within the Information Security and Privacy Group of Data61, with various experience levels and unique world leading profiles in Privacy. The team is one of the worlds’ leading research groups in Privacy Technologies and aims to achieve the exciting and challenging goals of enabling the use of data in our digital economy while preserving individuals privacy. 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:

* Lead a team of talented and highly skilled researchers and students to provide ground- breaking research and to actively contribute to the strategic research activities and R&D projects to deliver world-class research outcome in the form of innovative products, software, IP and top-notch competitive research publications.
* Communicate with internal and external partners to build Privacy-aware data-driven platforms and to increase awareness of privacy risks and privacy preserving technologies.
* Engage with new collaborators and Data61 partners to grow new Privacy-related science opportunities and support commercial outcomes.
* Build new collaborations and strengthen Data61 academic, government agencies and industry network of collaborators and partners.
* 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 team either nationally or internationally in highly visible and prestigious events to deliver talks, express the 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 plans and policies, Diversity initiatives and Zero Harm goals.
* Other duties as directed.

## Competencies:

1. **Teamwork and Collaboration:** Demonstrates initiative, actively contributing as a team member. Supports team decisions and keeps other team members up to date about individual actions. Shares all relevant and useful information. Pitches in and helps other team members when necessary.
2. **Influence and Communication:** Communicates basic facts in a courteous manner including posing appropriate questions to gain factual information.
3. **Resource Management/Leadership:** Provides instruction and assists other staff to complete allocated tasks and activities.
4. **Judgement and Problem Solving:** Selects appropriate solutions to clearly defined problems using readily available information. Alternatives are limited and prescribed or apparent.
5. **Independence:** Accepts personal responsibility for doing the job well. Looks for opportunities to improve the way things are done and makes recommendations accordingly.
6. **Adaptability:**Accepts the need for change to work routines or technology.

## Essential Criteria:

*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, information theory and statistics, mathematics, security and privacy or a closely related field and relevant experience in the area of privacy enhancing technologies.
2. An outstanding publication track record demonstrated through repetitive published papers in the top security and privacy conferences and journals.
3. An established reputation and credibility within the online security and privacy community or the data science and machine learning communities with evidence of effective leadership and international community recognition.
4. A track record of developing and leading research in security and privacy-related technologies including (but not limited to) Privacy preserving Systems design, information theory, applied cryptography techniques, security and privacy measurement and modelling.
5. Proven experience to apply research to potentially impactful applications and real-life domains including Health, future smart cities, digital data platforms, security and safety, etc.
6. A demonstrated ability to work in both industrial and academic research environments.
7. A demonstrated ability to collaborate and to perform efficient joint work on multi-disciplinary challenges through successful collaborations with distinguished researchers from industry and academia.

## Desirable Criteria:

1. Previous experience in cyber security and communication/network security.
2. Previous research in data-driven privacy threats identification and quantification.
3. Familiarity with network protocols, Internet services and communication systems or familiarity with privacy policies and frameworks.

## Special Requirements:

Appointment to this role may be subject to conditions including security/national police/medical/character clearance requirements. Applicants who are not Australian Citizens or Permanent Residents 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 imagine. We collaborate. We innovate. To find out more visit us [online](http://www.csiro.au/)!

Find out more about the CSIRO [Data61](https://www.data61.csiro.au/)