# Position Description

## Research Scientist/Engineer – CSOF8

The following information is for applicants

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| Advertised Job Title**:** | Senior Principal Research Scientist in Cyber Security |
| Job Reference: | 61433 |
| Relocation Assistance**:** | Will be provided to the successful candidate if required. |
| Applications Are Open To: | Australian/New Zealand Citizens and Australian Permanent Residents Only |
| Percentage of Client Focus - Internal: | 50% |
| Percentage of Client Focus - External: | 50% |
| Reports to the: | Group Leader, Distributed Systems Security |
| Number of Direct Reports: | 0 |
| Name and Contact Details For Applicant Enquiries | Dr Seyit Camtepe  Phone: 02 9372 4325  Email: [Seyit.Camtepe@csiro.au](mailto:Seyit.Camtepe@csiro.au) |
| Contact Details For Applying | Call 1300 984 220 or email [careers.online@csiro.au](mailto: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  Please do not email your application directly to Dr Camtepe.   Applications received via this method will not be considered by the selection panel. |

## Role Overview:

The role of the Senior Principal Senior Research Scientist is to provide a science guidance and lead to a team of researchers and students to be at the forefront of novel and world class research, leading to reputed international publications in top tier security conferences like IEEE S&P, ACM CCS, NDSS, Usenix Security, Crypto and Eurocrypt. The researcher will also be able to define, write, lead and manage both strategic and industry projects in the Distributed Security Systems Group within the Software and Computation Science Program. As the Senior Principal Research Scientist, you will be expected to act as a science lead for the group and supervise junior researchers, Postdoctoral fellows and PhD students independently within the Data61 scholarship programme and contribute to the development of new research areas and ideas by developing project proposals.

Data61 envisions a vibrant and globally competitive Australian cyber security industry with greater resilience to cyber threats in business, to enhance confidence in the digital economy by bringing together exceptional people from research and industry. Data61 is building a network with industries, academic and government communities, both nationally and internationally. Data61 provides a good supporting environment for commercialising research results and building innovation through start-ups and active community engagement. The Senior Principal Senior Research Scientist will have an opportunity to collaborate with Data61 partners within the Australian and international cyber security ecosystem and address the challenging problems in cyber security.

## Duties and Key Result Areas:

* Provide a science leadership in the cybersecurity.
* Bring international collaboration and recognition to the organisation.
* Carry out innovative, impactful cyber security research of strategic importance to CSIRO Data61 that will, where possible, lead to novel and important scientific outcomes.
* Provide leadership in writing new strategic/client research proposals and the development of innovative concepts and ideas for further research.
* Actively lead and participate in strategic and external R&D projects by undertaking project specific research, and communicating with internal and external partners.
* Build strategic relationship with Data61 industry and academic partners.
* Provide a science leadership to the team consisting of researchers, engineers and PhD students.
* Work closely with business development group to secure new client projects.
* Interact with clients in a professional manner and deliver client reports on time.
* Work with BD to develop new client projects.
* Attract PhD students and supervise them independently within the Data61 scholarship programme.
* Work collaboratively with colleagues within the team, Data61 and across CSIRO.
* Produce high quality scientific and/or engineering papers suitable for publication in quality journals, for client reports and granting of patents.
* Prepare appropriate conference papers and present those at conferences.
* Contribute to the effective functioning of the research team and help deliver CSIRO Data61’s organisational objectives and plans.
* Undertake regular reviews of relevant literature and patents.
* Communicate effectively and respectfully with all staff, clients and suppliers in the interests of good business practice, collaboration and enhancement of CSIRO’s reputation.
* Adhere to the spirit and practice of CSIRO’s Values, Health, Safety and Environment plans and policies, Diversity initiatives and Zero Harm goals.
* Undertake an appropriate training and development program developed by CSIRO.
* Other duties as directed.

## Competencies:

1. **Teamwork and Collaboration: Creates and fosters an environment in which there is a high level of cooperation within and between teams. Facilitates positive team relationships to build interactions across Business Units and the organisation.**
2. **Influence and Communication: Identifies critical stakeholders and influences them via an influential third party, for example through an established network, to gain support for sometimes contentious proposals/ideas.**
3. **Resource Management/Leadership: Provides leadership that fosters an environment that encourages new ideas and provides support for the development of emerging skills. Creates trust by displaying consistency, understanding, integrity and patience. Plans, seeks, allocates and monitors resources to achieve outcomes.**
4. **Judgement and Problem Solving:** Anticipates and manages problems in ambiguous situations. Develops and selects an appropriate course of action and provides for contingencies. Evaluates, interprets and integrates complex bodies of information and draws logical conclusions, synthesises proposals and defends options with reasoned arguments.
5. **Independence: Assesses the risk and opportunity of identified strategies, options and actions. Overcomes problems and setbacks in achieving goals. Invariably includes consideration of value-added future impact on bottom line when determining the optimal and efficient use of resources.**
6. **Adaptability:** Demonstrates flexibility in thinking and adapts to, and manages, the increasing rate of organisational change by adjusting strategies, goal and priorities.

## Selection Criteria:

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

1. A PhD in a relevant discipline area or relevant work experience, such as security, privacy or a closely related field and significant professor level work experience in the area of cyber security*.*
2. **High level written and oral communication skills demonstrated through publications and collaboration with the ability to represent the research team effectively internally and externally, including at national and international conferences, and a range of different audiences**.
3. **Demonstrated professor level of experience in conducting research activities in cyber security, more specifically in the area of automating cyber security, building resilience systems, IoT security, applied cryptography and/or cyber security governance and awareness; evidence from the top tier research publications such as** IEEE S&P, ACM CCS, NDSS, Usenix Security, Crypto and Eurocrypt**.**
4. **Professor level experience in supervising and mentoring junior researchers, developing and delivering high impact research projects.**
5. **The ability to act as a science lead to a team of researchers as well as work effectively as part of a research team, plus the motivation and discipline to carry out autonomous research.**
6. Demonstrated professor level of record of science innovation and creativity in the area of cyber security, plus the ability and willingness to incorporate novel ideas and approaches into scientific investigations.

**Desirable Criteria:**

1. Experience in research leadership including organising international security conferences as a chair.
2. Experience in participation in national and international industry talks, and industry projects in the area of cyber security.

## 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/)