Position Details

Research Projects - CSOF5

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| The following information is for applicants | |
| Advertised Job Title | Research Scientist – CSIRO’s DATA61 and the Cyber Security CRC |
| Job Reference | 64090 |
| Tenure | Specified term of 3 years  Full-time |
| Salary Range | AU $98,735 to AU $106,848 pa (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | Canberra, ACT or Sydney, NSW |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | All applicants |
| Position reports to the | Group Leader – Distributed Systems Security |
| Client Focus – Internal | 0% |
| Client Focus – External | 100% |
| Number of Direct Reports | 0 |
| Enquire about this job | Dr Surya Nepal, [Surya.Nepal@csiro.au](mailto:Surya.Nepal@csiro.au) or phone **+61 2 9372 4256** |
| 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 build and maintain networks, play a lead role in securing project funds, provide scientific leadership and pursue new ideas and approaches that create new concepts.

This is an exciting role that will help shape the effectiveness of the cyber security of critical infrastructure in Australia through applied research and development. The successful candidate will work closely with the research, industry and government participants in the Cyber Security CRC and DATA6 's Research in Distributed Systems Security.

In the role of research scientist in Cyber Security CRC, you will focus on a particular research theme of the CRC (See [www.cscrc.org.au](http://www.cscrc.org.au) for further details).

* Privacy-Preserving and Topic-Driven Deceptive Documents
* ML-based Deceptive Network Traffic
* ML-based Deceptive/Plausible Users Data Artefacts
* ML-based Deceptive System Files
* ML-based Deceptive User Avatar

The candidate will collaborate in developing a stream of research and development that contributes to high quality journal articles acceptable to high impact journals and continually seek to develop skills, experience, and research impact, with the objective of becoming a leading expert in the field.

The Research Fellow is expected to conduct research in the area of security automation, and application/software security, leading to reputed international publications such as IEEE S&P, ACM CCS, NDSS, Usenix Security, or similar conferences.

**Duties and Key Result Areas:**

* Under the direction of CRC theme leader and project leader carry out innovative, impactful research of strategic importance to cyber security that will, where possible, lead to novel and important scientific outcomes.
* Provide leadership in supervising postdoctoral fellows and PhD students.
* Produce high quality scientific and/or engineering papers suitable for publication in quality journals.
* Prepare appropriate conference papers and present those at conferences.
* Provide leadership to the development of innovative concepts and ideas for further research.
* Make a contribution to the effective functioning of the research team and help deliver CRC's organisational objectives and plans.
* Work collaboratively with colleagues within the CRC, industry partners and Data61.
* 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 CRC and Data61's reputation.
* Adhere to the spirit and practice of CRC and CSIRO's Values, Health, Safety and Environment plans and policies, Diversity initiatives and Zero Harm 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**

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

***Essential Criteria:***

1. A doctorate in a relevant discipline area, such as computer science, mathematics, o**r** information technology and a few years working experience after PhD
2. Proven ability to conduct high quality research, development and implementation in cybersecurity such as network and systems security, application of ML in security, etc.
3. Demonstrated track record of publications in top tier security conferences and journals.
4. Demonstrated ability to conduct independent research with limited supervision.
5. Demonstrated ability to work in a team, collaborate across disciplines and build effective relationships.
6. Strong interpersonal skills with demonstrated ability to communicate and interact with a diverse range of CSCRC stakeholders and students.

**Special 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/)!