Postdoctoral Fellowship – CSOF4

Role summary for potential applicants

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| Advertised Job Title**:** | Postdoctoral Fellowship in Security and Privacy |
| Reference Number**:** | 13062 |
| Classification**:** | CSOF 4 |
| Salary Range: | AU $78K to AU $88K plus up to 15.4% superannuation |
| Location**:** | Marsfield, NSW |
| Tenure: | Specified Term of 3 years |
| Relocation assistance**:** |  Will be provided to the successful candidate if required |
| Applications are open to: | [ ]  Australian Citizens Only[ ]  Australian Citizens and Permanent Residents Only* [x]  All Candidates
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| **Functional Area:** | Research Scientist / Engineer – Postdoc |
| Reports to the: | Research Team Leader, Distributed Systems Security  |

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| **Role Overview:** |
| Postdoctoral Fellowships at CSIRO Data61 provide opportunities to scientists and engineers, who have completed their doctorate and have less than three years relevant postdoctoral work experience. These fellowships will help launch their careers, provide experience that will enhance their career prospects, and facilitate the recruitment and development of potential leaders for CSIRO Data61. Postdoctoral Fellows are appointed **for up to three years** and will work closely with a leading Research Scientist or Engineer in their respective field. They carry out innovative, impactful research of strategic importance to CSIRO Data61 with the possibility of novel and important scientific outcomes. They present the findings in appropriate publications and at conferences.The Fellow will undertake research under the guidance of a senior research in the Distributed Security Systems Team in the general area of security and privacy, particularly as it relates to Big Data, Cloud Computing, Mobile Systems, Internet of Things or Social Computing. The fellow will be expected to undertake novel and world class research, leading to national and international publications. The Fellow will also have the opportunity to contribute to industrial research in security and privacy undertaken by CSIRO. |
| **Duties and Key Result Areas:** |
| * Under the direction of a senior research scientist, carry out innovative, impactful research of strategic importance to CSIRO Data61 that will, where possible, lead to novel and important scientific outcomes.
* Actively participate in strategic and external R&D projects by undertaking project specific research, implementing software, and communicating with internal and external partners.
* 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 as agreed with your supervisor.
* Contribute 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 CSIRO Data61’s organisational objectives and plans.
* Work collaboratively with colleagues within the team, Data61 and across CSIRO.
* 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.

***CSIRO’s postdoctoral training program***is developed between the Postdoctoral Fellow and a CSIRO scientist. The program will focus on enhancing the Fellow’s capabilities to the level expected of an independent researcher and will include on-the-job and course-based development encompassing:* Discipline-specific techniques and protocols
* Professional growth
* Project management
* Communication and influencing skills
* Working and collaborating with others
* <http://www.csiro.au/en/Careers/Student-and-graduate-programs/Postdoctoral-fellowships>
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| **Selection Criteria:** |
| *Under CSIRO policy only those who meet all essential criteria can be appointed****Pre-Requisite:***  **Education/Qualifications:** A PhD (or will shortly satisfy the requirements of a PhD) in a relevant discipline area, such as security, privacy or a closely related field*.* ***Please note:*** *To be eligible for this role you must have* ***no more than 3 years*** *of relevant postdoctoral experience.****Essential Criteria:***1. **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.**
2. **Demonstrated experience in developing software to implement security algorithms in emerging areas such as cloud computing, big data and cyber-social-physical systems.**
3. **The ability to work effectively as part of a research team, plus the motivation and discipline to carry out autonomous research.**
4. A record of science innovation and creativity in security and privacy, plus the ability & willingness to incorporate novel ideas and approaches into scientific investigations.

**Desirable Criteria:**1. Experience in academic and industrial research projects related to security and privacy.
2. Experience in data driven security techniques (e.g., data analytics for cybersecurity).

Data61 is a values based organisation. Our leaders will be expected to demonstrate the following values:* **Hierarchy**: Country, Company, Team, Individual
* **Openness**: Open debate, collaboration, full commitment
* **Learning**: Calculated risks, institutionalise learning, fast cadence
* **Impact**: Tackle hard problems, create the future, focus on outcomes
* **Stewardship**: Lead, make each function and co. stronger over time

To be appointed as a Postdoctoral Fellow within CSIRO, candidates are required to have **submitted** their PhD at the time of commencement, as a minimum requirement, if PhD conferment has not been obtained. If a candidate has submitted, but their PhD has not yet been formally attained, the starting salary will be CSOF4-1 ($78,479)*.* Upon CSIRO receiving written confirmation that the PhD has been awarded (within a six month period from commencement date), the salary will be increased to the negotiated level and the difference will be back-paid to the Officer’s start date.***Other special requirements:****Appointment to this role may be subject to conditions including security/medical/character clearance requirements. Applicants who are not Australian Citizens or Permanent Residents may be required to undergo additional security clearance processes; which may include medical examinations and an international standardised test of English language proficiency (i.e. IELTS test).-* [*http://www.ielts.org/default.aspx*](http://www.ielts.org/default.aspx) |

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| **Other Information:** |
| **How to Apply**Please apply for this position online at [www.csiro.au/careers](http://www.csiro.au/careers). You will need to upload your cover letter and resume/CV as one document, expressing your interest in the role and broadly addressing your suitability. Please provide sufficient relevant information to enable the selection panel to assess your suitability. Should your application proceeds to the next step, you may be asked to provide additional information.If you experience difficulties applying online call 1300 984 220 and someone will be able to assist you. Outside business hours please email: csiro-careers@csiro.au**Referees**: If you do not already have the names and contact details of two previous supervisors or academic/ professional referees included in your resume/CV please add these before uploading your CV.**Contact:** If after reading the selection documentation you require further information please contact: Dr Surya Nepal via email: Surya.Nepal@csiro.au or phone: +61 2 9372 4256Please do not email your application directly to Dr Nepal. Applications received via this method will not be considered.**AT CSIRO WE INVENT THE FUTURE**We do this by using science and technology to solve real issues. Our solutions make a difference to industry, people and the planet. As Australia’s national science agency we’ve been pushing the edge of what’s possible for almost 90 years. Today we have thousands of talented people working across Australia and internationally. Our people work closely with industry and communities to leave a lasting legacy. Collectively, our innovation and excellence places us in the top ten applied research agencies in the world. WE COLLABORATE TO INNOVATE.Find out more! [www.csiro.au](http://www.csiro.au).**About Data61:**Data61 is Australia’s digital powerhouse, formed by the recent integration of NICTA and CSIRO’s Digital Productivity business. 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.**What CSIRO offers you**You will be joining our small, dynamic research team in Sydney which is part of the Wireless and Networking Program. We have a strong passion for doing world class science and making a difference by applying it to real world problems across CSIRO business areas and external clients. We have strong connections to other research teams and groups in CSIRO, top Australian research universities (UNSW, Sydney University, UTS), and internationally well recognised researchers in security and privacy. Working in our team will allow you to leverage these connections to widen and strengthen your own professional network.We strongly believe in independence and personal drive. Working in CSIRO Data61 will give you many opportunities to step up and assume responsibility and leadership in research and community activities. |