Postdoctoral Fellowship – CSOF5

Role summary for potential applicants

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| Advertised Job Title**:** | Research Scientist in Cyber Security |
| Reference Number**:** | 24266 |
| Classification**:** | CSOF 5 |
| Salary Range: | AU $92K to AU $100K plus up to 15.4% superannuation |
| Location**:** | Sydney or Melbourne |
| Tenure: | Indefinite |
| Relocation assistance**:** | Will be provided to the successful candidate if required |
| Applications are open to: | Australian Citizens Only  Australian Citizens and Permanent Residents Only   * All Candidates |
| **Functional Area:** | Research Scientist / Engineer |
| Reports to the: | Research Team Leader, Distributed Systems Security |

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| **Role Overview:** |
| Data61 have an outstanding opportunity for a motivated and experienced Research Scientist, who has expertise in cyber security, more specifically in the area of automating cyber security, building resilient systems and IoT security. The research scientist is expected to lead both strategic and industry projects, and undertake novel and world class research, leading to reputed international publications. The researcher will undertake research under the guidance of a senior researcher in the Distributed Security Systems Group within the Software and Computation Science Program.  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 and academic communities both nationally and internationally. The researcher will have an opportunity to collaborate with Data61 partners and address the challenging problems in cyber security. |
| **Duties and Key Result Areas:** |
| * Attract PhD students, supervise them and carry out innovative, impactful cyber security research of strategic importance to CSIRO Data61 that will, where possible, lead to novel and important scientific outcomes. * Build strategic relationship with Data61 industry and academic partners. * Actively lead and 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. * 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 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. |

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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 in a relevant discipline area, such as security, privacy or a closely related field and at least 2 years work experience in the area of cyber security after PhD*.*  ***Please note:*** *To be eligible for this role you must have* ***at least 2 years*** *of relevant experience after PhD.*  ***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 conducting research activities in cyber security, more specifically in the area of automating cyber security, building resilience systems and IoT security.** 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 the rea of cyber security, plus the ability & willingness to incorporate novel ideas and approaches into scientific investigations.   **Desirable Criteria:**   1. Experience in supervising PhD students in the area of cyber security. 2. Experience in participation in the national and international industry talks, and industry projects in the area of cyber security.   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   **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> |

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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](mailto: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](mailto:Surya.Nepal@csiro.au) or phone: +61 2 9372 4256  Please 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.  Find out more! <http://www.data61.csiro.au/>  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. |