Senior Research Scientist – CSOF6

Role summary for potential applicants

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| Advertised Job Title**:** | Senior Research Scientist in Cyber Security |
| Reference Number**:** | 59846 |
| Classification**:** | CSOF 6 |
| Salary Range: | AU $111,663 to AU $130,848 plus up to 15.4% superannuation |
| Location**:** | Melbourne, Vic or Sydney, NSW |
| Tenure: | Indefinite |
| Relocation assistance**:** | Will be provided to the successful candidate if required |
| Applications are open to: | * All Candidates
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| **Functional Area:** | Research Scientist / Engineer |
| Reports to the: | Research Team Leader, Distributed Systems Security  |

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| **Role Overview:** |
| The role of the Senior Research Scientist is to lead both strategic and industry projects, and 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 lead and manage a team of junior researchers in the Distributed Security Systems Group within the Software and Computation Science Program. As the Senior Research Scientist, you will be expected to lead projects, interact with clients and deliver client projects, supervise PhD students independently within the Data61 scholarship programme and contribute to the development of new research areas and ideas.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 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.  |

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| **Duties and Key Result Areas:** |
| * 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 defining new strategic research areas/directions 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, implementing software, and communicating with internal and external partners.
* Build strategic relationship with Data61 industry and academic partners.
* Work closely with business development group to secure new client projects.
* Interact with clients in a professional manner and deliver client reports on time.
* Attract PhD students and supervise them independently within the Data61 scholarship programme.
* Lead a team of junior researchers.
* 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.
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| **Selection Criteria:** |
| *Under CSIRO policy only those who meet all essential criteria can be appointed****Pre-Requisite:*** 1. **Education/Qualifications:** A PhD in a relevant discipline area, such as security, privacy or a closely related field, OR significant work experience in the area of cyber security*.*

***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, and a range of different audiences**.
2. **Demonstrated high 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**.**
3. **Experience in supervising and mentoring juniors researchers.**
4. **The ability to lead a team as well as work effectively as part of a research team, plus the motivation and discipline to carry out autonomous research.**
5. A 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 supervising PhD students in the area of cyber security.
2. Experience in participation in national and international industry talks, and industry projects in the area of cyber security.

***CSIRO Values:***As Australia’s Innovation Catalyst, CSIRO has strategic actions underpinned by behaviours aligned to Excellent science, Inclusion, trust & respect, Health, safety & environment and Deliver on commitments.  In your application and at interview you will need to demonstrate alignment with these behaviours.***Data61 Values:*****Great Impact**: We focus our valuable resources on areas where we can lead globally and have large impact for Australia, to aid our future prosperity and independence.  **Mastery**: We are fearless, curious and we improve every day. We strive to excel in research, technology and business, and to work with the best in the world.  **Co-Creation of Value**: Everything we do involves co-creation with our network: team, customers and partners. Generously empowering their success is central to our success.  **Ownership of Results**: We jointly hold ourselves accountable for our actions. We do this via trust and commitment. **People and their Differences**: We embrace the creativity that comes from the diversity of our people. **Agility and Flexibility**: We view the changing world as an opportunity. This requires agility and flexibility in everything we do; everything changes, except our constant desire to adapt. **Tell it Straight, with Respect:**We say what we mean, mean what we say, and do not mislead, obfuscate or spin. We're direct and always respectful.**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).<https://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, 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. You may also be asked to respond to some on-line screening questions.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 4256 orDr Marthie Grobler via email: Marthie.Grobler@csiro.au or phone +61 03 9518 5953 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; cyber security; 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 and Melbourne which is part of the Software and Computational System 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, 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. At CSIRO we support balance. Let us know how we can make this role flexible for you. |