# backgroundData 61 and CSIRO logoDevOps Engineer – CSOF6

Role summary for potential applicants

|  |  |
| --- | --- |
| Advertised Job Title**:** | Dev Ops Engineer |
| Reference Number**:** | 56117 |
| Classification**:** | CSOF6 |
| Salary Range: | Attractive salary and conditions negotiable |
| Location**:** | Negotiable (Eveleigh, Sydney NSW or Canberra ACT preferred) |
| Tenure: | 2.5 year fixed-term contract |
| Relocation assistance**:** | Will be provided to the successful candidate if required. |
| Applications are open to: | All Candidates |
| Functional Area**:** | Research Scientist/Engineer |
| Number of Direct Reports: | 0 |
| Reports to the: | Team Leader – Data Science Platforms |

|  |
| --- |
| **Role Overview:** |
| The Data Science Platforms team is building a graph analytics platform with real impact for Australia. The DevOps Engineer role will play a key part in delivering the next generation of machine learning algorithms.  The role requires a creative and dedicated devops engineer to design, build and manage both our internal and client-hosted distributed machine learning environments. This position can provide independence in building the development, deployment and release strategy, as well as providing the opportunity to learn new things and grow to their full potential with a highly skilled and diverse team.  Data61 is the largest data innovation group in Australia. We are unrivalled in our intellectual capital and our network with the global technology marketplace, bringing together approximately 600 research staff working in digital technologies to create benefit for Australia. Data61 continues to develop Australia’s future leaders with its strong 300+ PhD student program in collaboration with our best universities across Australia. |

|  |
| --- |
| **Duties and Key Result Areas:** |
| * Design and deliver internal and client-hosted infrastructure for a distributed machine learning system. * Build and manage software delivery, systems integration, and developer support tools. * Design and implement the CI/CD strategy for the team. * Engage with clients to develop integration strategies for custom system deployments. * Automate processes and procedures to continuously improve the way we work. * Develop performance and load testing strategies, and optimise system performance. * Work collaboratively with clients to deliver and support our platform in government agencies. * Adhere to the spirit and practice of CSIRO’s Values, Health, Safety and Environment plans and policies, Diversity initiatives and Zero Harm goals. * Other duties as directed. |

|  |
| --- |
| **Selection Criteria:** |
| *Under CSIRO policy only those who meet all essential criteria can be appointed*  ***Pre-Requisites:***   1. **Education/Qualifications:** Bachelors/Master’s degree in a scientific or technical discipline such as Computer Science, or equivalent commercial experience*.* 2. **Problem Solving:** Proven ability to investigate underlying issues of complex and ill-defined problems and develop appropriate responses by adapting/creating and testing alternative solutions**.** 3. **Behaviours:** A history of professional and respectful behaviours and attitudes in a collaborative environment. 4. **Adaptability:** The ability to effectively manage a number of competing priorities simultaneously, and carry out non-routine tasks independently. Also, the willingness to discover and tackle new problems as they come   ***Essential Criteria:***   1. Experience designing, building and operating complex distributed systems in a cloud environment 2. Proficiency with containerised environments, e.g. Docker Swarm, Kubernetes 3. Solid experience with CI/CD processes and tools, e.g. Travis CI, Jenkins 4. Experience with configuration management tools, e.g. Chef, Puppet, Ansible 5. Experience with at least one scripting language, e.g. Python, Ruby, Go, Bash, Perl 6. Experience troubleshooting complex problems in distributed systems 7. The ability to collaborate and grow with a multi-disciplinary, geographically dispersed research and engineering team.   **Desirable Criteria:**   1. Experience deploying systems inside government agencies or industry clients 2. Experience with Australian Government compliance and regulatory requirements, e.g. PSPF, ISM 3. Experience with log and metric collection, e.g. Logstash, Prometheus 4. An interest in machine learning and graph analytics   **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.  In Data61, our leaders will be expected to demonstrate the following 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 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. 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:  Peter Hassall via email: Peter.Hassall@data61.csiro.au or phone: +612 6218 3709  Alex Collins via email Alex.Collins@data61.csiro.au or phone +612 9490 5963  Please do not email your application directly. Applications received via this method will not be considered.  **About CSIRO**  Australia is founding its future on science and innovation. Its national science agency, the Commonwealth Scientific and Industrial Research Organisation (CSIRO) is a powerhouse of ideas, technologies and skills for building prosperity, growth, health and sustainability. It serves governments, industries, business and communities across the nation.  Find out more: [www.csiro.au](http://www.csiro.au).  **We work flexibly at CSIRO, offering a range of options for how, when and where you work.**  **Find out more here!:** <https://www.csiro.au/en/Careers/A-great-place-to-work/Work-life-balance>  **CSIRO Data61** In today’s data-focused world, there’s no doubt that numbers count. [**Data61**](http://www.data61.csiro.au/) are the largest data innovation group in Australia, a connector that brings together technology innovators, businesses and universities to transform Australian industry and to help solve our greatest challenges. A CSIRO business, we are creating our data-driven future.  **Our commitment to you** We work flexibly at CSIRO, offering a range of options for how, when and where you work. Talk to us about how this role could be flexible for you. We emphasise an individual’s growth and development which is supported by interacting and learning from world leading scientists and engineers, who provide the opportunity to challenge, transform and innovate new ideas.  CSIRO’s Data61 is committed to sourcing the brightest and best talent to become part of the Data61 family, which contributes to creating Australia’s data driven future.  Find out more – visit our [website](http://www.data61.csiro.au) |