# Research Projects – CSOF3

Role summary for potential applicants

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| Advertised Job Title**:** | Software Engineer |
| Reference Number**:** | 37846 |
| Classification**:** | CSOF3 |
| Salary Range: | AU $59K to AU $75K plus up to 15.4% superannuation |
| Location**:** | Black Mountain, Canberra |
| Tenure: | Specified Term till 30 June 2018 |
| Relocation assistance**:** | Will be provided to the successful candidate if required. |
| Applications are open to: | Australian Citizens and Permanent Residents Only and candidates who have full work rights for the duration of the appointment and do not require a visa |
| Functional Area**:** | Research Projects |
| % Client Focus - Internal: | 50% |
| % Client Focus - External: | 50% |
| Reports to the: | Team Leader / supervisor |
| Number of Direct Reports: | 0 |

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| **Role Overview:** |
| The role of Research Projects staff in CSIRO is to collaborate in scientific activities with other research staff usually by assisting with detailed planning, undertaking or assisting with experimental and observational work, and in carrying out the more practical aspects of the work. At senior levels, Research Projects staff may be involved in providing consulting services, science management and/or industry liaison.  The CSIRO along with the High Resolution Plant Phenomics Centre (HRPPC) is seeking a Software Engineer, with a Linux, Web development and Information Visualisation background to join our computer vision development team. The role will involve creating infrastructure to support computer vision algorithms for applications related to the analysis of digitised plants.  The HRPPC is a world-class plant analysis facility located at CSIRO, Black Mountain in Canberra. It provides a new set of tools for Australian and International Plant Scientists to explore plant gene function and develop higher-yielding crops better suited to current and future environmental challenges. The centre exploits recent advances in robotics, imaging and computing to enable sensitive, high throughput analyses to be made of plant growth and function. |

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| **Duties and Key Result Areas:** |
| * Assist in the design, coding, integrating and testing of internal and client facing software/websites. * Maintain detailed technical documentation for produced computer code; * Work with image analysts to create/test workflows of computer vision algorithms; * Maintenance of cluster and cloud computing pipelines; * Creation of websites for presentation of scientific results. * Maintenance of Software and integration of existing systems with Splunk. * Development of Linux & windows software to work with automated data collection systems. * Communicate effectively and respectfully with all staff, clients and suppliers in the interests of good business practice, collaboration and enhancement of CSIRO’s reputation. * Work collaboratively with colleagues within your team, the business unit and across CSIRO, to reach objectives. * Provide instruction on activities pertaining to the immediate work area and responsibilities, as required. * 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. |

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| **Selection Criteria:** |
| *Under CSIRO policy only those who meet all essential criteria can be appointed*  ***Pre-Requisites:***   1. **Education/Qualifications:** Bachelor degree in software engineering, computer science or equivalent related field with at least 12 months of programming experience in an industry/research environment. 2. **Communication:** Excellent communication skills, both written and oral, including the ability to anticipate the interests and knowledge level of an audience and present information and feedback accordingly**.** 3. **Behaviours:** A history of professional and respectful behaviours and attitudes in a collaborative environment. 4. **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**.**   ***Essential Criteria:***   1. Demonstrated proficiency in a wide range of languages such as Python, Java, C++, SQL and Bash. With a proficiency version control systems such as Git. 2. Willingness and ability to act in a support-oriented role with a high level of adaptability to client demands and team priorities. 3. Web development experience including development using PHP, HTML, CSS3. 4. Ability to work constructively and effectively in teams under short timelines delivering high quality work. 5. Ability to communicate in a fluent and courteous manner, both orally and in writing.   **Desirable Criteria:**   1. Understanding of computer vision. 2. Familiarity with Amazon Web Services, RHEL and KVM. 3. Familiarity with Computer Security. 4. Pervious exposure to Java Spring framework development.   **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. |

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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 may be asked to provide additional information (online) relevant to the selection criteria. If so, then responding will enhance your application so please take the time to provide relevant succinct answers. Applicants who do not provide the information when requested may not be considered.  If you experience difficulties applying online call 1300 301 509 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:  Xavier Siraultvia email: Xavier.sirault@csiro.au or phone: +61 2 6246 4952.  **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).  **CSIRO Agriculture** is helping Australian farmers and industry improve productivity and sustainability across the agriculture sector. CSIRO Agriculture will focus on the following challenges:   * Crop improvement; * Livestock and aquaculture genetic improvement; * Farming systems for productivity and sustainability; * Interactions between agriculture and the environment; climate change, adaptation and mitigation; science for healthy soils; * Global food security and development.   <http://my.csiro.au/Business-Units/Agriculture-Flagship.aspx> |