# Research Projects – CSOF3

Role summary for potential applicants

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| Advertised Job Title**:** | Software Engineer/Web Developer |
| Reference Number**:** | 56442 |
| Classification**:** | CSOF3 |
| Salary Range: | AU $61,425 to AU $78,177 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/New Zealand Citizens and  Australian Permanent Residents Only  *For Specified Term positions, we will accept applications from Temporary Residents with working rights for the length of the term, who do not require sponsorship.* |
| 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.  CSIRO Agriculture & Food 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 analytics and computer vision development team. The role will involve creating infrastructure to support computer vision algorithms for web applications related to the analysis of digitised plants and crops.  The HRPPC is a world-class plant analysis facility located at CSIRO Agriculture and Food, CSIRO Black Mountain Science and Innovation Park, 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 websites. * Maintain detailed technical documentation for produced computer code; * Work with a software team to build websites for presentation of scientific results. * Development of Linux 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 Web development experience including development using JavaScript, PHP, HTML and CSS3 2. Ability to create backend scripts or software in Linux using Python and Bash. 3. Experience with LAMP stacks and related technologies in a Linux environment. 4. Ability to work constructively and effectively in teams under short timelines delivering high quality work.   **Desirable Criteria:**   1. Ability to work with Git and Jira. 2. Familiarity with MySql 3. Familiarity with Centos, KVM and computer security. 4. Previous experience integrating websites with the Java Spring framework.   **As Australia’s Innovation Catalyst, CSIRO has strategic actions underpinned by behaviours aligned to**:   * Excellent science * Inclusion, trust & respect * Health, safety & environment * Delivery 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 <https://jobs.csiro.au/> and enter requisition number **56442**. Internal applicants please apply via ‘Jobs Central’ in SAP (click ‘Recruitment’)  Please load your CV (Maximum 2MB). You may also be required to respond to some screening questions.  If you experience difficulties applying online call 1300 984 220 for assistance. Outside Australian business hours please email: [csiro-careers@csiro.au](mailto:csiro-careers@csiro.au).  **Referees**: Please provide contact details of two previous supervisor or academic/professional referees in your resume/CV. We will ask your permission before making contact.  **Contact:** If after reading the selection documentation you require further information please contact:  **Dr Warren Creemers**via email: [warren.creemers@csiro.au](mailto:warren.creemers@csiro.au) or phone: 02 6218 3508.  Please do not email your application directly to Dr Creemers. Applications received via this method may not be considered by the selection panel.  **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. Talk to us about how this role could be flexible for you.  Find out more! [CSIRO Balance](https://www.csiro.au/en/Careers/A-great-place-to-work/Work-life-balance)  **CSIRO Agriculture and Food,** our researchers are helping Australian farmers and industry improve productivity and sustainability across the agriculture sector - <http://www.csiro.au/en/Research/AF> |