# Position Details

*Integration Software Engineer*

## Research Projects – CSOF4

The following information is for applicants

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| Advertised Job Title**:** | Integration Software Engineer |
| Job Reference: | 60777 |
| Relocation Assistance**:** | Will be provided to the successful candidate if required. |
| Applications Are Open To: | Australian/New Zealand Citizens and Australian Permanent Residents Only |
| Percentage of Client Focus - Internal: | 80% |
| Percentage of Client Focus - External: | 20% |
| Reports to the: | Software Team Lead |
| Number of Direct Reports: | 0 |
| Name and Contact Details For Applicant Enquiries: | Kazys Stepanas – kazys.stepanas@csiro.au |
| Contact Details For Applying: | Call 1300 984 220 or email careers.online@csiro.au.  |
| How to Apply: | Please apply online at [jobs.csiro.au](https://jobs.csiro.au/) and enter the requisition number**.** Internal applicants please apply via ‘Jobs Central’ in SAP (click ‘Recruitment’)  |

## Role Overview

Research Projects staff in CSIRO collaborate in scientific and technological activities with other research staff usually by assisting with detailed planning, undertaking or assisting with experimental, observational or technology development work, and in carrying out the more practical aspects of the work. Research Projects staff may be involved in providing consulting services, science management and/or industry liaison.

The Integration Software Engineer is responsible for developing software solutions for robotic and automated systems platforms within the Cyber Physical Systems program. The position plays a critical role within this multi-skilled and highly motivated Robotics and Automated Systems software team. The role offers highly rewarding work with research scientists and engineers working on world leading research and robotics systems.

## Duties and Key Result Areas:

* Develop high-quality software solutions
* Develop software modules to connect and integrate robotics systems
* Collaborate with researchers to achieve research project outcomes
* Investigate, diagnose and debug technical issues in order to identify viable solutions.
* Follow appropriate processes and procedures for managing client issues and identify process improvements.
* Participate in project planning and scheduling based on client needs, including allocating and directing tasks where appropriate.
* Communicate openly, effectively and respectfully with all staff in the interests of good business practice, collaboration and enhancement of CSIRO’s reputation.
* Work collaboratively as part of a multi-disciplinary, often regionally dispersed research team, and business unit to carry out tasks in support of CSIRO’s scientific objectives.
* Adhere to the spirit and practice of CSIRO’s Code of Conduct, Health, Safety and Environment plans and policies, Diversity initiatives and Zero Harm goals.
* Other duties as directed.

## Competencies:

1. **Teamwork and Collaboration:** Demonstrates initiative, actively contributing as a team member. Supports team decisions and keeps other team members up to date about individual actions. Shares all relevant and useful information. Pitches in and helps other team members when necessary.
2. **Influence and Communication:** Communicates basic facts in a courteous manner including posing appropriate questions to gain factual information.
3. **Resource Management/Leadership:** Provides instruction and assists other staff to complete allocated tasks and activities.
4. **Judgement and Problem Solving:** Selects appropriate solutions to clearly defined problems using readily available information. Alternatives are limited and prescribed or apparent.
5. **Independence:** Accepts personal responsibility for doing the job well. Looks for opportunities to improve the way things are done and makes recommendations accordingly.
6. **Adaptability:**Accepts the need for change to work routines or technology.

## Essential Criteria:

*Under CSIRO policy only those who meet all essential criteria can be appointed.*

1. Relevant diploma/bachelor’s degree or equivalent work experience in software engineering
2. 2+ years C/C++ software development experience
3. High level of oral and written communication skills
4. Ability to work independently

## Desirable Criteria:

1. Experience with Linux based operating systems
2. Real-time software development experience
3. Understanding of ROS; Robots Operating System
4. Knowledge of various communication protocols
5. Machine vision and image processing experience
6. Background in DevOps and Docker deployment

## About CSIRO:

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Find out more about CSIRO [Data61](https://www.data61.csiro.au/)