# Position Details

## Research Projects- CSOF4

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| The following information is for applicants |
| Advertised Job Title | Electrical Engineer |
| Job Reference | 71022 |
| Tenure | Specified Term of 2 years Full-time or Part-time (4 days per week) |
| Salary Range | AU$83,687 to AU$94,679 pa (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | Clayton, VIC |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | Australian Citizens only |
| Position reports to the | Team Leader |
| Client Focus – Internal | 20% |
| Client Focus – External | 80% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Mathew Hill via email at: Matthew.Hill@csiro.au or phone: +61 3 9545 2841  |
| How to apply | Apply online at <https://jobs.csiro.au/> Internal applicants please apply via **Jobs Central**If you experience difficulties when applying, please email careers.online@csiro.au or call 1300 984 220. |

### 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.

CSIRO’s Manufacturing Business Unit requires an Electrical Engineer to work in advanced materials and prototyping laboratories. The role requires electrical/electronic engineering as well as general engineering skills. Our research is at its core focussed on the translation of cutting-edge advanced material technologies to prototypes in order to maximise the impact of our research.

This position will support the development, construction and integration and operation of an automated system processing gas streams. It will require input into user interfaces (include valves, heaters, sensors, pumps) for gas processing instruments and prototypes at different scales including laboratory and pilot.

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### Duties and Key Result Areas:

* Contribute to data analysis, troubleshooting and the generation of operational manuals.
* Liaise with external engineers and stakeholders to ensure validity of work.
* Make contributions to the interpretation of results and collaborate on drafting presentations to, and/or detailed written reports for, clients and the scientific and/or technology community.
* Adapt and/or develop original experimental methods/equipment/software/concepts/ ideas in support of existing and further research, promptly addressing where methods may not be defined, and initiative is required in seeking new approaches to meet experimental and/or technological needs.
* Communicate openly, 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 as part of a multi-disciplinary team 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 procedures and policy, Diversity initiatives and Making Safety Personal goals.
* Other duties as directed.

## **Required Competencies:**

* **Teamwork and Collaboration:** Cooperates with others to achieve organisational objectives and may share team resources in order to do this. Collaborates with other teams as well as industry colleagues.
* **Influence and Communication:** Uses knowledge of other party's priorities and adapts presentations or discussions to appeal to the interests and level of the audience. Anticipates and prepares for others reactions.
* **Resource Management/Leadership:** Allocates activities, directs tasks and manages resources to meet objectives. Provides coaching and on the job training, recognises and supports staff achievements and fosters open communication in the team.
* **Judgement and Problem Solving:** Investigates underlying issues of complex and ill-defined problems and develops appropriate response by adapting/creating and testing alternative solutions.
* **Independence:** Recognise and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).
* **Adaptability:**Copes with ambiguity or situations that lack clarity. Adapts readily to changing circumstances and new responsibilities (which may include activities outside own preferences) in the interests of achieving team objectives. Recognises the need for and undertakes personal development as a result of changes.

## **Selection Criteria**

#### Essential

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

1. Relevant trade certificate/diploma/ tertiary qualification &/or equivalent experience in Engineering including Electronics, Electrical Engineering, Prototyping or other relevant experience.
2. Practical and demonstrable experience in the development and/or assembly and/or updating of instruments or prototypes and their control systems or equivalent.
3. The ability to work effectively as part of a multi-disciplinary research team, and carry out tasks under general direction from Scientific Researchers and Senior Engineers.
4. The ability and willingness to contribute novel ideas and approaches in support of scientific investigations.

**Desirable:**

1. Experience in the integration of advanced materials in devices and prototypes.
2. Experience in laboratory work.
3. Experience in the analysis of scientific data pertaining to gases and gas sensing systems.

Special Requirements

Appointment to this role will be subject to the following condition:

The successful candidate will be asked to obtain and provide evidence of a National Police Check or equivalent. Please note that people with criminal records are not automatically deemed ineligible. Each application will be considered on its merits.

## **About CSIRO:**

We solve the greatest challenges through innovative science and technology. To find out more visit us [online](http://www.csiro.au/)!

Find out more about CSIRO [Manufacturing](https://www.csiro.au/en/Research/MF)