# Position Details

## Research Projects- CSOF5

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| The following information is for applicants |
| Advertised Job Title | Industrial Electrician – Automation and Control |
| Job Reference | 72451  |
| Tenure | Indefinite Full-time, Part-time or Job-share (min hours required) |
| Salary Range | AU$98,735 - AU$106,848 per annum (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | Narrabri, NSW |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | Australian/New Zealand Citizens and Australian Permanent Residents currently residing in Australia |
| Position reports to the | NSW Observatory Operations Group Leader |
| Client Focus – Internal | 100% |
| Client Focus – External | 0% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Peter Mirtschin via email at peter.mirtschin@csiro.au |
| 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

**CSIRO Astronomy and Space Science (CASS)** manages CSIRO’s world-class facilities for radio astronomy and spacecraft tracking, is internationally renowned for its radio astronomy research and engineering expertise and is helping to shape the Square Kilometre Array (SKA). CSIRO’s radio astronomy observatories are collectively known as the Australia Telescope National Facility (ATNF) and comprise radio telescopes at three observatories near the towns of Parkes, Coonabarabran and Narrabri in New South Wales (NSW), and the next-generation Australian Square Kilometre Array Pathfinder (ASKAP) at the Murchison Radio-astronomy Observatory (MRO) in Western Australia (WA).

The Industrial Electrician – Automation and Control will be part of the ATNF Operations Program to support Observatory Operations at Parkes and Narrabri in NSW.

Responsibilities of the role will include supporting other engineering maintenance staff and focusing on the design and implementation of engineering changes and improvements to observatory systems and instrumentation. There is scope within the role for career development and specialisation work as well as cross-site work with other ATNF sites in NSW and WA.

This is an opportunity to combine the advantages of a rural lifestyle with a role that presents unique challenges at a prime science and technology research facility.

CSIRO Astronomy and Space Science is committed to providing a safe and inclusive workplace culture and implementing initiatives to improve diversity and equity within our workplace. CSIRO offers a range of flexible working arrangements to support these initiatives including part time and job-sharing options.

### Duties and Key Result Areas

* Assist in the maintenance and operation of a range of electromechanical, servo drive systems and instrumentation for the control and monitoring of the Parkes and Narrabri Telescopes.
1. Design and develop improvements to ensure high levels of system reliability and enhanced performance across a broad range of electrical, mechanical and electronic systems.
* Work collaboratively with colleagues to identify areas for improvement and lead the design, installation and commissioning of enhancements.
* Manage Observatory technical drawings and documentation.
* Attend to after-hours breakdowns and work flexible hours if required, and travel to other sites to assist with installation and maintenance activities.
* Design, develop and adapt experimental methods and systems, software and/or user experience, requiring high levels of initiative, ingenuity and skills (some of which are outside a single discipline).
* Develop novel techniques to produce enhanced results, providing researchers with new or improved approaches to research or technological problems.
* May initiate and maintain collaborative relationships with external researchers and experts, manage contracts and transfer technology to industry.
* Liaise with clients to determine their needs and take personal responsibility for client satisfaction.
* Address problems promptly and in a constructive manner.
* Participate in work which is highly involved because of the unique or unusual features and complications, requiring the creation of original user experiences, the design & development of original technologies, and/or the development of original experimental or observational techniques and insightful interpretation of data.
* Participate in project scoping and planning, making significant contributions to the research or technological direction, and may advise on the level and type of services that are provided.
* 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 research team to carry out tasks in support of CSIRO’s scientific objectives.
* Adhere to the spirit and practice of CSIRO’s Values, Code of Conduct, Health, Safety and Environment procedures and policy, Diversity initiatives and Making Safety Personal goals.
* Other duties as directed.

## **Selection Criteria**

#### Pre-Requisites

#### Essential

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

1. A diploma or degree in electrical, instrumentation or electronic engineering or equivalent relevant professional experience.
2. NSW Electrical License (or ability to obtain one if from another state) and 10 years post trade experience.
3. A valid Class ‘C’ driver’s licence.
4. Demonstrated in-depth professional engineering experience with the operation and maintenance of a broad range of electromechanical and electronic systems, including precision servo drive systems, hydraulics, power generation and distribution and Uninterruptible Power Supply (UPS) systems.
5. Proven experience with fault finding and repair of complex industrial control systems including both relay control logic and PLC based systems.
6. Demonstrated experience in the design and commissioning of industrial automation and control systems.
7. A high level of computer literacy including a proven ability to design in a CAD environment.
8. Ability to communicate effectively, in-person and in writing, with multi-disciplinary teams, management, contractors and external stakeholders;
9. Demonstrated commitment to safe work practices, environmental sustainability and the principles of equity and diversity.

#### DesirableCriteria:

1. Previous experience in the engineering maintenance of an operational scientific facility with complex engineering requirements.

## **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 team 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:** Sets up and maintains effective and efficient work teams and manages performance and resources, to achieve objectives. Chooses appropriate management strategies and communication styles to maintain high levels of motivation and productivity. Gives feedback for development purposes and provides support and direction for improvement.
* **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:** Plans, sets and works to meet challenging standards and goals for self and/or others. Recognises where endeavours will make the most impact or difference, decides on desired outcome and sets realistic goals to reach this target.
* **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.

Special Requirements

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

The successful candidate must also be willing to undertake regular travel to other sites for up to one week at a time.

## **About CSIRO**

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

CSIRO is a values-based organisation.  In your application and at interview you will need to demonstrate behaviours aligned to our values of:

* People First
* Further Together
* Making it Real
* Trusted

Find out more about [CSIRO Astronomy and Space Science](https://www.csiro.au/en/Research/Astronomy).