# Position Details

## Technical Services – CSOF4

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| The following information is for applicants | |
| Advertised Job Title | Electrical Technician |
| Job Reference | 73466 |
| Tenure | Indefinite  Full time, part-time (60 hours/ftn), or job-share (if circumstances permit; min. hours required) |
| Salary Range | AU$85,361 to AU$96,573 (pro-rata for part-time) plus up to 15.4% superannuation |
| Location(s) | Parkes, NSW |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | Australian or New Zealand Citizens and Australian Permanent Residents currently residing in Australia |
| Position reports to the | Team Leader, Parkes Telescope |
| Client Focus – Internal | 95% |
| Client Focus – External | 5% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Mal Smith via email at mal.smith@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](mailto: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, Narrabri (NSW), and the next generation Australian Square Kilometre Array pathfinder (ASKAP) at the Murchison Radio-astronomy Observatory (MRO) in Western Australia.

The Electrical Technician will be part of the ATNF Operations Program to support observatory operations at the CSIRO Parkes Radio telescope, in central west NSW. The role will assist in the maintenance and operation of a broad range of electrical systems at the Parkes Radio Telescope. Working within a small engineering operations team, the Electrical Technician will be responsible for a range of electrical distribution systems and electrical control systems, with regards to maintenance and the ongoing operations of the radio telescope and supporting systems.

### Duties and Key Result Areas

* Undertake routine maintenance, equipment upgrades, and fault finding across a range of electrical/electromechanical systems that include: electrical distribution switchboards and power reticulation (up to 415V), electrical control boards and cabinets (mixed voltages of ELV and LV), DC and AC Motors and tachometers, standby diesel generator supply and control (100 and 330kVA units), some air conditioning plant & equipment, and the routine testing and tagging of appliances.
* Collaborate with external stakeholder in the design and installation of replacement switchboards within electrical distribution systems.
* Ensure test equipment, electrical spares and components, consumables and other workshop equipment is well stocked and maintained.
* Maintain accurate maintenance logs, engineering drawings and documentation.
* Liaise with CASS staff from other observatories to provide assistance and undertake collaborative projects as required.
* Assist in identifying and implementing improved maintenance routines and safe work procedures.
* Participate in the after-hours on-call system, and if required, be able to attend to after-hours breakdowns and work flexible hours if required.
* 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 and business unit to carry out tasks in support of CSIRO scientific/engineering 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**

#### Essential

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

1. Relevant trade qualification for an electrician.
2. Demonstrated industrial experience in the maintenance and operation of:
   1. Electrical power supply systems and wiring.
   2. Electrical servo drive systems and/or electrical control systems involving power electronics/electromechanical devices.
3. Demonstrated experience with computer aided drawing (CAD) techniques and computer based analysis and report writing.
4. Practical knowledge of and experience in the design and installation of electrical switchboards and electrical distribution systems.
5. Demonstrated experience in planning and conducting the maintenance, repairs, fault finding and diagnosis of electrical systems including interpretation of drawings.
6. Demonstrated ability to work safely and effectively, as part of a small engineering team with minimal supervision and display a high level of initiative and self-motivation.
7. Good written and verbal communication skills and proven ability to utilise computer software packages for general correspondence, and documentation updates.

## **Desirable**

1. A willingness to learn about other comparable systems used for telescope operations, such as electronic systems, mechanical systems, etc.
2. Electrical contractor’s license.
3. Experience or qualifications in operation of EWP’s and First Aid.

## **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:** Recognises 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.

Special Requirements

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.

The successful candidate must be willing and able to work outside of normal hours and travel to other sites on occasion for an after-hours/on-call support system. Overtime pay and/or flex leave will be applicable.

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1. People First
2. Further Together
3. Making it Real
4. Trusted

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