# Position Details

## Technical Services – CSOF3 and CSOF4

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| The following information is for applicants | |
| Advertised Job Title | Electrical Technician |
| Job Reference | 78281 |
| Tenure | Indefinite  Full time or Part time (0.8FTE) |
| Salary Range | **CSOF3:** AU$66,163 to AU$84,207 (pro-rata for part time) plus up to 15.4% superannuation  **CSOF4:** AU$87,068 to AU$98,504 (pro-rata for part time) plus up to 15.4% superannuation  \* Please note this role is offered across two capability levels, and the appointment will be at the level commensurate with candidate’s skills & experience. |
| Location(s) | Parkes, NSW |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | Australian/New Zealand Citizens and Australian Permanent Residents |
| 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 Tim Wilson via email [Tim.Wilson@csiro.au](mailto:Tim.Wilson@csiro.au) or phone +61 2 6790 4010 |
| 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

The role of Technical Services staff in CSIRO is to provide support for scientific research in a diverse range of laboratory and field situations across a range of different research projects. This support consists of the application of accepted technical practices and the development of new practices. The work is usually carried out as a member of a centralised service.

**CSIRO Space and Astronomy (S&A)** 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 in NSW and will be based at the CSIRO Parkes Radio telescope. The role will assist in the maintenance and operation of a broad range of electrical systems at the Parkes Radio Telescope and provide additional resources for other NSW Observatories at Narrabri and Coonabarabran. 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 and equipment upgrades across a range of electrical 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.
* Maintain accurate maintenance logs, engineering drawings and documentation.
* Ensure test equipment, electrical spares and components, consumables and other workshop equipment is well stocked and maintained.
* Assist in identifying and implementing improved maintenance routines and safe work procedures.
* Assist in a range of site activities, and interact and co-operate with other technical and non-technical staff to ensure the safe and efficient operation of the observatory systems.
* Liaise with S&A staff from other observatories to provide assistance and undertake collaborative projects as required.
* Participate in the after-hours on-call system, and 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.
* Travel to other NSW Observatories to assist with upgrades and maintenance.
* 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.

***Duties at the higher CSOF4 level will also include:***

* Collaborate with external stakeholders to design, develop and install upgrades to Electrical Infrastructure.
* Adapt and/or develop original techniques/procedures/equipment/concepts/ideas in support of existing and further research.
* Allocate activities, direct tasks and manage resources to meet objectives.

## **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 a broad range of electrical systems including power generation and distribution, AC and DC motors, servo drive systems and hydraulics.
3. Practical knowledge of the design and installation and relevant standards of electrical switchboards and electrical distribution systems.
4. Demonstrated experience in planning and conducting the maintenance, repairs, fault finding and diagnosis of electrical systems including interpretation of drawings.
5. 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.
6. Good written and verbal communication skills and proven ability to utilise computer software packages for general correspondence, and documentation updates.

***Additional Essential Criteria for CSOF4 Appointment***

1. Demonstrated industrial experience in the design, installation and commissioning of electrical servo drive systems and/or electrical control systems involving power electronics/electrical devices including both relay logic and PLC’s.
2. Demonstrated experience with computer aided drawing (CAD) techniques and computer-based analysis and report writing.

## **Desirable**

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

## **Required Competencies**

* **Teamwork and Collaboration:** Proactively seeks and considers the ideas and opinions of others from within and outside the team to help form decisions, plans or actions.
* **Influence and Communication:** Puts forward ideas by presenting factual information supported by data, definitions, examples, illustrations or other aids, which will assist in conveying meaning.
* **Resource Management/Leadership:** Provides instruction and assists other staff to complete allocated tasks and activities.
* **Judgement and Problem Solving:** Identifies and considers the implications of a range of available alternatives in order to select the most appropriate response to problems of a familiar or recurring nature.
* **Independence:** Recognise and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).
* **Adaptability:**Willingness to change ideas or perceptions based on new information, contrary evidence or other people's points of view. Prepared to try out different approaches.

***Additional Required Competencies for CSOF 4 level***

* **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.
* **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 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.

## **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:

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

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