# Position Details

## Research Projects- CSOF3

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| The following information is for applicants |
| Advertised Job Title | Electronics Technician - ASKAP |
| Job Reference | 93353 |
| Tenure | IndefiniteFull time |
| Salary Range | AU$68,148 to AU$86,733 plus up to 15.4% superannuation |
| Location(s) | Geraldton, WA |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | All Candidates |
| Position reports to the | Electronics Team Leader  |
| Client Focus – Internal | 100% |
| Client Focus – External | 0% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Matt Kamer via email at Mahdi.Kamer@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. |

**Acknowledgement of Country**

CSIRO acknowledges the Traditional Owners of the land, sea and waters, of the areas that we live and work on across Australia. We acknowledge their continuing connection to their culture and pay our respects to their Elders past and present. View our [vision towards reconciliation](https://www.csiro.au/en/about/Indigenous-engagement/Reconciliation-Action-Plan).

**Child Safety**

CSIRO is committed to the safety and wellbeing of all children and young people involved in our activities and programs. View our [Child Safe Policy](https://www.csiro.au/en/about/policies/child-safe-policy).

### Role Overview

Space and Astronomy (S&A)manages CSIRO’s world-class facilities for radio astronomy and spacecraft tracking. We are internationally renowned for our radio astronomy research and engineering expertise, and closely engaged with construction of the SKA, a $€2$ billion international project in radio astronomy sited jointly in Western Australia and South Africa.

CSIRO’s radio astronomy observatories are collectively known as the Australia Telescope National Facility (ATNF) and comprise radio telescopes at three observatories in NSW near the towns of Parkes, Narrabri and Coonabarabran.

A fourth telescope, the next-generation Australian SKA Pathfinder (ASKAP), is operated at Inyarrimanha Ilgari Bundara, CSIRO’s Murchison Radio-astronomy Observatory, in Western Australia. ASKAP is a new, world-class radio telescope comprising 36 fully-steerable antennas equipped with novel Phased Array Feed receivers (PAFs) designed and built by CSIRO. These receivers together produce 100Tb/s of raw data which are processed on site using state-of-the art Digital Signal Processing hardware also designed and maintained by CSIRO. ASKAP is already producing high impact science results and has recently commenced its initial 5-year survey program for which it was designed, which will map the cm-radio sky to unprecedented depths of sensitivity, discovering tens of millions of new galaxies.

We are seeking an Electronics Technician be part of the support team for ASKAP Operations. You will work under broad supervision and guidance to provide technical support of complex digital, analogue and radio frequency systems including the PAF receivers, digital signal processing, control and monitoring, and timing systems. The role includes participating in planning for critical systems maintenance activities, fault finding and testing.

You will be part of a multi-disciplinary engineering team located on our Geraldton site, but working at times within the broader ATNF technical team including at our Marsfield Headquarters to maintain operational support.

This is an opportunity to combine the advantages of a relaxed, ocean-side lifestyle with a leading-edge technology job at a world-class science and technology research facility.

**Please note:** Frequent travel to the Inyarrimanha Ilgari Bundara, CSIRO’s Murchison Radio-astronomy Observatory (approx. 350km northeast of Geraldton) will be required. Visits will be typically five days in duration and require overnight stays at the Boolardy accommodation facility.

### Duties and Key Result Areas

* Work within a small multi-disciplinary team to monitor system performance and maintain the Observatory electronics systems, to ensure the highest levels of availability required for the National Facility.
* Apply your knowledge and experience, working under direction, to undertake fault diagnosis and corrective maintenance on a diverse range of specialised analogue and digital electronic equipment, sharing your knowledge and skills with other staff.
* Undertake repairs to electronic equipment and modules down to component level.
* Travel occasionally to other ATNF sites, as required, to assist with installation and maintenance of electronics systems.
* Actively contribute to written and online documentation associated with equipment repair and maintenance, including management of system drawings and schematics, and configuration management.
* Travel frequently to the site of the ASKAP radio telescope, some 350km northeast of Geraldton.
* Communicate openly, effectively and respectfully with all staff, contractors and visitors in the interests of good business practice, collaboration and enhancement of CSIRO’s reputation.
* Adhere to the spirit and practice of CSIRO’s Values, Code of Conduct, Health, Safety and Environment procedures and policy, Diversity initiatives and Zero Harm goals.
* Other duties as directed.

## **Selection Criteria**

#### Essential

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

1. A relevant Electronics Certificate, Associate Diploma or equivalent in Electrical/Electronic/RF Engineering.
2. Demonstrated experience in diagnosing electronics systems and aptitude for advancing system knowledge.
3. Willingness to work effectively as part of a multi-disciplinary, regionally dispersed team, and to carry out tasks autonomously.
4. Demonstrated experience with soldering, rework of PCBs and electronic modules as well as mechanical assembly.
5. Willingness to travel to other CSIRO sites for training and professional development or to assist with the repairs, installation or maintenance of equipment.
6. The ability and willingness to operate elevated work platforms to access heights up to 25m above the ground.
7. Demonstrated commitment to safe work practices, environmental sustainability and the principles of equity and diversity.
8. A current Class ‘C’ Australian driver’s licence (or equivalent).

#### Desirable

1. An understanding of RF systems and a mechanical aptitude.
2. Experience with data cabling including working with optic fibre installation and splicing.
3. Familiarity with modern project management platforms and/or collaboration tools such as Jira and Confluence.
4. Willingness to work with computer aided drafting (CAD).

**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.

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.

## **About CSIRO:**

We solve the most significant challenges through innovative science and technology. Visit [CSIRO Online](http://www.csiro.au/) and [CSIRO Astronomy and Space Science](https://www.csiro.au/en/Research/Astronomy) for more information.

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

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