# Position Details

## Technical Services

|  |
| --- |
| The following information is for applicants |
| Advertised Job Title | Antenna Mechanical Technician |
| Job Reference | 63606 |
| Tenure | Indefinite (Full-time) |
| Salary Range | AU$64,082 to AU$86,702 pa + up to 15.4% superannuation (Eligible for Tracking Station Allowance, Working at Heights, Confined Space, Fleet Transport To & From Site) |
| Location(s) | Canberra Deep Space Tracking Station, Tidbinbilla |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | Australian Citizens Only |
| Position reports to the | Antenna Systems Mechanical Team Leader |
| Client Focus – Internal | Daily |
| Client Focus – External | Intermittent |
| Number of Direct Reports | 0 |
| Enquire about this job | Clayton Locke via email at Clayton.Locke@csiro.au or phone +61 2 6201 7961 or Sharon Schultz (HR) Sharon.Schultz@csiro.au or +61 2 6201 7913 |
| 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

The CSIRO Astronomy and Space Science (CASS) division provides facilities for scientists from Australia and around the world to explore our solar system and beyond. These facilities include the Australian Telescope National Facility (ATNF), which supports radio astronomy by operating radio telescopes at three observatories across NSW and the Canberra Deep Space Communication Complex (CDSCC).

The Canberra Deep Space Communication Complex (CDSCC) Program supports ground-based spacecraft telecommunications as part of the international National Aeronautic Space Administration (NASA) Deep Space Network (DSN). Working with the Antenna support team, the Antenna Mechanical Technician will work under routine direction and limited supervision to provide installation works and maintenance tasks of moderate complexity. This will include modifications and fault repair of antenna mechanical and structural systems and site support services including mobile plant and powerhouse. The Mechanical Technician will have varying levels of responsibilities in maintenance and installation activities, project management, configuration management and technical planning, quality assurance/predictive testing and inspections.

### Duties and Key Result Areas:

**MAINTENANCE AND INSTALLATION ACTIVITIES**

* Perform maintenance and installation activities, to Jet Propulsion Laboratory (JPL) and to manufacturers’ specifications, including:
	+ Installation and maintenance of designated hydraulic systems, couplings, pumps, structural elements, bearings, diesel generators and machining/fabrication as needed.
	+ Assist in overseeing antenna inspections as part of JPL’s Deep Space Network programme and provide reports as required.
	+ Respond to faults, complaints, audits, investigations and incident reports.
	+ Liaise with internal and external customers and staff including CSIRO and JPL contacts.
* Effectively communication, both orally and in writing, on technical and non-technical matters at team and individual levels.

**PROJECT MANAGEMENT, CONFIGURATION MANAGEMENT AND TECHNICAL PLANNING**

* + - Supervise contract staff on site on specific project tasks.
		- Provide technical guidance to contractors on the proper interfacing of new and upgraded systems.
		- Provide support for configuration management within the Antenna group, including:
	+ Assist and advise in the management of system drawings and schematics to reflect as-installed configurations.
	+ maintain appropriate recordkeeping and version control of hardware/software in use in the systems.
		- Assist in maintenance and technical planning within the Antenna group including:
	+ Technology assessment and practical evaluation, contributing to specification preparation for future enhancements and planning for future upgrades.
		- Use Reliability Centre Maintenance (RCM) and Computerised Maintenance and Management System (CMMS) based tools to maintain and improve where possible maintenance efficiencies and reliability of systems.

**QUALITY ASSURANCE/PREDICTIVE TESTING AND INSPECTION**

* Assist team leader in quality assurance processes relating to mechanical maintenance and project work activities.
* Under technical direction, select the appropriate methods to perform standard analyses and be able to undertake technical tasks associated with trials, tests, measurement, reviews and investigations including associated calculations and analysis.

**COMMUNICATION, TEAM WORK & COLLABORATION**

* Oversee the activities of less experienced staff and provide on-the-job training, as 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, often regionally dispersed research team, and business unit to carry out tasks in support of CSIRO scientific objectives.
* Adhere to the spirit and practice of CSIRO’s Code of Conduct, Health, Safety and Environment plans and policies, Diversity initiatives and Zero Harm goals.
* Other duties as directed.

## **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.

## **Selection Criteria**

#### Essential

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

1. **Education/Qualifications:** Certificate 3 or 4 in a relevant Mechanical discipline, e.g. Fitting and Machining, or Diesel Mechanic.
2. Previous experience in an industrial environment, as a mechanical fitter, diesel mechanic or fitter/machinist undertaking maintenance of heavy industrial plant.
3. Demonstrated ability to read and understand drawings and circuit diagrams.
4. Demonstrated experience in repair and maintenance of hydraulic systems.
5. Basic computer skills in Microsoft Office e.g. Word, Excel, Outlook.

## **Desirable:**

1. **Other Certifications:** Post trade qualification in a relevant discipline, e.g. welding, hydraulics, diesel fitting. ACT Drivers License, Working at Heights and Confined Spaces Training, Elevated Work Platform, White Card, HR Vehicle License, Basic Rigging, Forklift License, Welding & Fabrication.
2. Electric arc welding and oxy acetylene cutting/welding skills.
3. Operating mobile equipment e.g. telehandler, fork-lift, elevated work platform, gantry crane
4. Knowledge of electronic maintenance management program (e.g. Maximo)

Special Requirements

Appointment to this role may be subject to conditions including provision of a national police check as well as other security/medical/character clearance requirements.

* The successful candidate will be asked to obtain and provide evidence of a National Police Check. Please note that people with criminal records are not automatically deemed ineligible. Each application will be considered on its merits.
* The successful candidate will be required to undertake a pre-employment medical examination prior to commencement.
* As this site works directly with NASA and JPL, the successful applicant will be required to obtain an Export Administration Regulations (EAR) clearance/approval.

## **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 the CSIRO Astronomy and Space <https://www.csiro.au/en/Research/Astronomy>