Position Details

Technical Services

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| The following information is for applicants | |
| Advertised Job Title | Senior Antenna Servo Technician |
| Job Reference | 100686 |
| Tenure and work schedule | Indefinite  Full-time |
| Classification | SCT Level 3.1 – 3.4 |
| Salary Range | AU$105,158 to AU$118,538pa + 15.4% superannuation |
| Location(s) and office arrangements | On Site at Tidbinbilla, ACT  Canberra Deep Space Communication Complex (CDSCC) |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | * Australian Citizens * New Zealand Citizens * Australian Permanent Residents |
| Position reports to the | Antenna Servo – Team Leader |
| Client Focus – Internal | 95% |
| Client Focus – External | 5% |
| Number of Direct Reports | 0 |
| Enquire about this job | Paul Richter via email at [Paul.Richter@csiro.au](mailto:Paul.Richter@csiro.au) |
| Support and workplace adjustments | We offer a range of reasonable supports and workplace adjustments. Please let us know via Laura Mason at [Careers.Online@csiro.au](mailto:Careers.Online@csiro.au) if we can help you to equitably participate in our recruitment process or the role itself. |
| 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) |

**CSIRO CANBERRA DEEP SPACE COMMUNICATION COMPLEX**

421 Discovery Drive, Tidbinbilla ACT 2620

PO Box 1035, Tuggeranong ACT 2901 Australia

**csiro.au** | ABN 41 687 119 230

**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).

### About CDSCC

Under an Agreement between the Australian and United States Governments, CSIRO has management responsibility for the activities of the National Aeronautics and Space Administration (NASA) in Australia. The principal activity is the operation of the Canberra Deep Space Communication Complex (CDSCC) located at Tidbinbilla, some 40 km from Canberra. CDSCC supports ground-based telecommunications as part of the international National Aeronautic Space Administration (NASA) Deep Space Network (DSN), under contractual arrangements between NASA and the Commonwealth Scientific Industrial Research Organisation (CSIRO). CDSCC is one of three similar complexes that together with the Network Operations Control Centre at the Jet Propulsion Laboratory (JPL) – based in the US - constitute NASA’s global DSN. JPL manages and operates the DSN for NASA. Visit [CDSCC Online](https://www.cdscc.nasa.gov/) for more information.

### Role Overview

The Senior Antenna Servo Technician is a member of the Antenna Servo Systems Team responsible for maintaining antenna control electronics and interface systems. These include servo drive, control, monitor, pointing assemblies, SCADA & PLC, all of which operate in a 24/7 environment, and are upgraded periodically requiring hardware and/or software installation and testing.

### Duties and Key Result Areas:

* Perform maintenance and installation activities, to JPL or manufacturers’ specifications, including:
  + commissioning, upgrading, testing, calibration and repair of equipment and subsystem hardware that is part of electronic and servo control interface systems,
  + installation of new and upgraded operational software,
  + operational software programme maintenance and system administration in a secure network environment,
  + transfer hardware and software into operation.
* Respond to faults, audits, investigations and incident reports.
* Assist with necessary training to Operations staff following new hardware/software upgrades.
* Assist with out of hours emergency support via telephone analysis where possible and attend the site for diagnostics and repairs where necessary and if available to do so.
* Selects the appropriate methods to perform standard analysis and be able to undertake technical tasks associated with tests, measurement, reviews and investigations.
* Willingness to participate in major facility & system upgrades at other DSN sites. This would involve international travel to the US (California) and/or Spain (Madrid).
* Effectively communicate, both orally and in writing, on technical and non-technical matters at team and individual levels across the Complex.
* Utilise Windows-based and other manufacturers proprietary software tools in support of these systems, such as Rockwell Automation & Kollmorgen packages.
* Utilise basic commands in a UNIX/Linux type environment in support of data acquisition & transfer, and perform basic file system maintenance.
* Ensure critical spares levels are maintained and where necessary research & order suitable replacement parts and/or alternate source of supply with JPL engineering concurrence.
* Provide support to Antenna Servo projects including:
* Supervising contract staff on site,
* Provide technical guidance to contractors.
* Provide support for configuration management within the Antenna Servo group including:
* Assist with the maintenance of system drawings, schematics, technical manual updates & parts lists to reflect as-installed configurations.
* Assist in maintenance and technical planning within the Antenna Servo group including:
* Participate in and provide support for system performance testing, data capture and analysis to assist with JPL development work and anomaly resolution,
* Provide local support and facilitate the coordination, implementation and testing of JPL engineered solutions,
* Technology assessment and practical evaluation,
* Use Reliability Centre Maintenance (RCM) and Computerised Maintenance and Management System (CMMS) based tools to maintain historical records, and improve where possible maintenance efficiencies and reliability of systems,
* Participate in planning meetings.
* Looks for opportunities to develop and enhance current methods in the use of equipment, software, maintenance and installation techniques as a means of continuous improvement.
* 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 team, and research unit to carry out tasks in support of CDSCC objectives.
* Adhere to the spirit and practice of CSIRO’s Code of Conduct, Health, Safety and Environment procedures and policy, and Diversity initiatives.
* Other duties as directed.

## Selection Criteria

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

***Essential Criteria:***

1. **Education/Qualifications:** Diploma in Electronics and/or Communications or equivalent.
2. **Other Certifications:** Current Driver’s License, Hand Soldering (IPC).
3. **Other Certifications currently held or willingness to obtain on commencement of work:** Restricted Electrical License (REL), Elevated Work Platform, Working at Heights, White Card, Working with Asbestos, Silica dust awareness certification.
4. Minimum five (5) years’ experience in repair, maintenance, installation and diagnosis of analogue and/or digital control equipment.
5. Proficient in system performance and integration testing of equipment.
6. Ability to read and understand detailed electronic schematics.
7. Demonstrated Electrical Safety Awareness.
8. Excellent oral and communication skills.

**Desirable Criteria:**

1. Advanced Diploma in Electronics and/or Communications or equivalent.
2. Previous experience developing and updating technical drawings e.g. using AutoCAD.
3. Mechanical aptitude and ability to work with wide range of hand and electrical tools.
4. Other Certifications: Forklift License, Basic Rigging, ACMA (open license), Confined Spaces.

**Not sure if you meet all the criteria?**

While it is CSIRO policy that the successful candidate must meet all the essential criteria, there are many ways to demonstrate this. Don’t let the list discourage you. If you are unsure about applying, please reach out to the contact on page 1 of this document so we can discuss the role further.

## Required Competencies:

1. **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.
2. **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.
3. **Resource Management/Leadership:** Provides instruction and assists other staff to complete allocated tasks and activities.
4. **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.
5. **Independence:** Recognise and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).
6. **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.

**Setting you up for success**

We understand that not everyone works in the same way and sometimes people may require reasonable support and adjustments to perform at their best. Whether related to the recruitment process and or the role itself, this may include options such as providing different methods of communication, flexible hours or physical adjustments to work methods. If you feel comfortable, we encourage you to share any support and adjustments you may need to carry out the inherent requirements of the role. Please let us know via [careers.online@csiro.au](mailto:careers.online@csiro.au) if we can help you to equitably participate in our recruitment process or the role itself.

**Life at CSIRO and flexible working arrangements**

We [work flexibly at CSIRO](https://www.csiro.au/en/careers/life-at-csiro/Flexible-work), offering a range of options for how, when and where you work.  We can discuss flexible work arrangements with you during the recruitment process. CSIRO also offers a range of leave entitlements, [benefits](https://www.csiro.au/en/careers/life-at-csiro/Benefits) and [career development](https://www.csiro.au/en/careers/life-at-csiro/Career-development) opportunities. To learn more, visit [Careers at CSIRO](https://www.csiro.au/en/careers).

We celebrate the uniqueness of our workforce and are committed to creating [diverse and inclusive teams](https://www.csiro.au/en/careers/life-at-csiro/Diversity-inclusion-belonging) where everyone feels they belong. CSIRO is an equal employment opportunity organisation dedicated to recruiting people based on merit, and reflecting the diversity of the community we serve. We recognise true diversity encompasses all ages, nationalities, abilities, cultures, genders, sexualities, faiths, levels of education, diversity of thought and many more aspects of identity. By empowering diverse teams, our community is reflected in the solutions we create.

**CSIRO values**

CSIRO is a values-based organisation committed to values-based leadership.

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| **Value** | **Descriptor** | **Behaviour** |
| **People first** | Our priority is the safety and wellbeing of our people. We believe in, and respect, the power of diverse perspectives. We seek out and learn from our differences. | * Respectful * Caring * Inclusive |
| **Further together** | We achieve more together than we ever could alone. We listen and collaborate, in teams, across disciplines, across boundaries. We embrace ambiguity and use discussion and persistence to generate unique solutions to complex problems. | * Accountable * Authentic * Courageous |
| **Making it real** | We do science with real impact. We thrive when taking on the big challenges facing the world. We take educated risks and defy convention. We celebrate successes and failures and leverage them to learn as we strive to be the force for positive change. | * Partnering * Cooperative * Humble |
| **Trusted** | We’re driven by purpose but remain objective. We fight misinformation with facts. We earn trust everywhere through everything we do. We trust each other and we hold each other accountable. Together our actions drive Australia’s trust in CSIRO. | * Curious * Adaptive * Entrepreneurial |

**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).

Special Requirements

Appointment to this role may be subject to conditions including;

* Evidence of a recent 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.
* As this site works directly with NASA and JPL, the successful applicant will be required to obtain and maintain an Export Administration Regulations (EAR) clearance/approval.