# Position Description

## Technical Services – CSOF4

The following information is for applicants

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| Advertised Job Title**:** | CNC Mechanical Technician  |
| Job Reference: | 62242 |
| Relocation Assistance**:** | Will be provided to the successful candidate if required. |
| Applications Are Open To: | Australian/New Zealand Citizens and Australian Permanent Residents Only |
| Percentage of Client Focus - Internal: | 100% |
| Percentage of Client Focus - External: | 0% |
| Reports to the: | Team Leader, Engineering Technical Services |
| Number of Direct Reports: | 0 |
| How to apply: | Please apply online at [jobs.csiro.au](https://jobs.csiro.au/) and enter the requisition number**.** Internal applicants please apply via ‘Jobs Central’ through the ‘People Hub’ icon  |
| Contact details to discuss this position: | Christian Blood via email: Christian.blood@csiro.au *Please do not email your application directly to Christian Blood. Applications received via this method will not be considered.* |
| If you have difficulty applying please contact: | Call 1300 984 220 or email csiro.online@csiro.au between 8.30 am and 5 pm Australian east coast time. |

## Role Overview:

The role of the Mechanical Technician is to work with science teams to develop tools to support a diverse range of research projects both in the laboratory and in the field. This support consists of the application of accepted technical practices and the development of new practices. The role is part of the Engineering and Technical Services (ETS) team based in Hobart. The team of 7 Mechanical Technicians provide engineering solutions to Oceans and Atmosphere (O&A) along with other groups both within and outside of CSIRO, including the Marine National Facility (*RV Investigator*) and the Integrated Marine Observing System.

## Duties and Key Result Areas:

* Provide technical general engineering and CNC support through the ETS facility to research programs both within CSIRO and external clients.
* Develop original techniques, processes, equipment or software, especially when encountering new problems, where methods are not defined and initiative is required in seeking new approaches in support of existing and further research.
* Work alongside other O&A engineering teams to support the delivery of complex and specialist machined parts.
* Assist in the development of CNC workflows along with training other ETS staff in CNC operation.
* Design equipment and adapt techniques to meet special circumstances and client needs or undertake modifications to methods or equipment requiring limited innovation.
* Assist the activities of less experienced staff and apprentices and provide on-the-job training.
* Prepare and operate CNC machines to perform complex machining operations.
* Translate client instructions, through engineering drawings to computer commands through an effective CAD/CAM package.
* Run diagnostics to fault find machine errors and rectify poor machine outputs.
* Select appropriate methods to perform standard analyses and undertake technical tasks associated with trials, tests, measurements, reviews and investigations including associated calculations and analysis.
* Liaise with clients to determine their needs and take personal responsibility for their satisfaction, correct problems promptly and in a constructive manner.
* Participate in the planning of projects and accept responsibility for carrying out major parts of the project, including data analysis, and typically make significant contributions to the interpretation and communication of results.
* 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.

## CSIRO Competencies:

1. **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.**
2. **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.**
3. **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.**
4. **Judgement and Problem Solving:** Investigates underlying issues of complex and ill-defined problems and develops appropriate response by adapting/creating and testing alternative solutions.
5. **Independence: Recognise and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).**
6. **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.

## Selection Criteria:

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

1. Relevant trade certificate in Fitting and Machining.
2. Extensive experience as a full qualified Tradesperson in a relevant field.
3. Substantial experience in at least 4 axis CNC milling and 2 axis Turning applications.
4. Demonstrated experience in designing equipment and adapting techniques using CNC programming.
5. Experience in 3D drawing packages along with CAD-CAM software.

## Desirable Criteria:

1. Proven programming/operating proficiency on Heidenhain and FANUC control systems.
2. Operational knowledge of 5 Axis CNC milling operations.
3. Knowledge of Solid edge 3D drawing packages, OneCNC CAD-CAM software.
4. Experience with DMU 50 5AX machining or similar system for DMG Mori.
5. Experience and desire to use conventional workshop equipment
6. Experience in the prototyping and manufacture of electro-mechanical science instrumentation.

## Special Requirements:

Appointment to this role will be subject to a medical assessment and national police check.

## About CSIRO:

At CSIRO we solve the greatest challenges through innovative science and technology. See more [online](http://www.csiro.au/)!