# Position Details

## Research Projects - CSOF6

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| The following information is for applicants | |
| Advertised Job Title | Satellite Operations and Data Manager - CSIRO Centre for Earth Observation |
| Job Reference | 72902 |
| Tenure | Specified Term of 12 months Full-time, Part-time (minimum 0.8 FTE) or Job-share (if circumstances permit) |
| Salary Range | AU$113k to AU$132k per annum (pro-rata for part-time)  plus up to 15.4% superannuation |
| Location(s) | Sydney, Adelaide, Brisbane, Canberra, Darwin, Hobart, Melbourne or Perth (Negotiable, Capital Cities) |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | * Australian Citizens and Permanent Residents currently residing in Australia * New Zealand Citizens currently residing in Australia * Australian temporary residents who are currently residing in Australia and have the right to work for the expected duration of the term (at least to end of June 2022), with no requirement for sponsorship. |
| Position reports to the | Director, CSIRO Centre for Earth Observation |
| Client Focus – Internal | 50% |
| Client Focus – External | 50% |
| Number of Direct Reports | 0 |
| Enquire about this job | Alex Held via email - [Alex.Held@csiro.au](mailto:Alex.Held@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](mailto:careers.online@csiro.au) or call 1300 984 220. |

### Role Overview

### The Satellite Operations and Data Manager is a full-time role which coordinates operations and data services for the NovaSAR-1 and CSIROSat-1 satellite(s).

### CSIRO is part of a global partnership to operate and acquire data from NovaSAR-1. NovaSAR-1 is a small Synthetic Aperture Radar (SAR) mission which operates in the S-band microwave frequency (3.2 GHz), corresponding to a 9.4 cm wavelength. The spacecraft is also equipped with an Automatic Identification System (AIS). The Satellite Operations and Data Manager coordinates image tasking and downlink with the satellite and ground-station operators, and manages the processing chain, archive, and data distribution hub. The position also holds responsibility for maintaining and updating all CSIRO NovaSAR-1 related public facing webpages.

### CSIRO is working with industry to develop CSIROSat-1, a three-unit CubeSat featuring infrared technology, to enable new remote-sensing research about Earth. The Satellite Operations and Data Manager will establish operational procedures around tasking images and ground station passes.

### Duties and Key Result Areas

* Coordinate NovaSAR-1 tasking to fully utilise the CSIRO capacity - conflict resolution and optimisation of OPAL (Online Proposals and Links) requests, national background acquisitions and disaster images.
* Manage the NovaSAR-1 data application OPAL system – updating OPAL content and the User Guide, scheduling OPAL rounds, managing proposal assessments, assisting users with applications, providing advice on satellite acquisition parameters, communicating imaging plans and status updates.
* Maintain confidentiality when working with or accessing personal, governmental and commercially sensitive information.
* Manage the NovaSAR-1 National Facility datahub – verifying users, answering enquiries, and ensuring the archive content is accurately reflected in a timely fashion.
* Coordinate download pass requests with the Australian ground station provider.
* Work closely with the satellite operator Surrey Satellite Technology Ltd to ensure smooth running of the satellite operations and consistent quality of NovaSAR-1 data distributed via the CSIRO system.
* Work closely with the other NovaSAR-1 capacity share partners and other organisations to maximise the value of the NovaSAR-1 program and data.
* Manage Level-0-to-Level-1 processor systems including archive management, software testing, manual processing and quality control of data.
* Participate and represent CSIRO in strategic forums such as the NovaSAR-1 National Facility Steering Committee and provide briefing/advice as required.
* Support the CSIROSat-1 CubeSat project with operational support in respect to tasking satellite images and ground station passes.
* Develop and maintain accurate and up-to-date content and images for the CSIRO Centre for Earth Observation (CCEO) NovaSAR-1 webpages.
* Provide support answering enquiries from CSIRO, CCEO, OPAL, the datahub and any other channels.
* Act as a trusted advisor and demonstrate creativity to determine and anticipate client or project needs.
* Identify and adapt quickly to changes in client or project needs and changes in the external environment.
* Be accountable for the quality of the results delivered, the alignment of the project activities with the business, research and/or technology directions.
* Address ill-defined problems and make critical choices between options that require knowledge of the most recent scientific and/or technological developments or novel methodologies.
* 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 research team to carry out tasks in support of CSIRO’s 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.

**Selection Criteria**

#### Essential

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

1. Tertiary qualifications in a relevant field such as aerospace engineering, earth observation, geospatial sciences, or equivalent experience.
2. Demonstrated experience and understanding in satellite operations and data acquisition.
3. Proven ability to work effectively as part of a multi-disciplinary, regionally dispersed team, along with the motivation and self-discipline to carry out tasks independently.
4. Sound judgement with a proven ability to effectively prioritise multiple requests and events, both routine and unscheduled or unexpected.
5. A history of strong communications and successful interpersonal relations, including the ability to relay and rationalise technical ideas and concepts on behalf of a third party.
6. Proven ability to anticipate problems in ambiguous situations and develop appropriate solutions.
7. The ability & willingness to contribute novel ideas and approaches in support of scientific investigations.

## **Desirable**

1. Competencies in basic EO-data types, processing and applications, and in particular on large-volume EO data management and processing.
2. Experience with Earth imaging satellite tasking and related software such as SaVoir and STK.
3. Experience with Linux environments, GDAL and VBA.
4. Experience in spatial data analysis, SAR-based remote sensing and/or space science, and its applications.

## **Required Competencies**

* **Teamwork and Collaboration:** Cooperates with others to achieve organisational objectives and may share team resources in order to do this. Collaborates with other team as well as industry colleagues.
* **Influence and Communication:** Identifies critical stakeholders and influences them via an influential third party, for example through an established network, to gain support for sometimes contentious, proposals / ideas.
* **Resource Management/Leadership:** Sets up and maintains effective and efficient work teams and manages performance and resources, to achieve objectives. Chooses appropriate management strategies and communication styles to maintain high levels of motivation and productivity. Gives feedback for development purposes and provides support and direction for improvement.
* **Judgement and Problem Solving:** Anticipates and manages problems in ambiguous situations. Develops and selects an appropriate course of action and provides for contingencies. Evaluates, interprets and integrates complex bodies of information and draws logical conclusions, synthesises proposals and defends options with reasoned arguments.
* **Independence:** Assesses the risk and opportunity of identified strategies, options and actions. Overcomes problems and setbacks in achieving goals. Invariably includes consideration of value-added future impact on bottom line when determining the optimal and efficient use of resources.
* **Adaptability:**Demonstrates flexibility in thinking and adapts to and manages the increasing rate of organisational change by adjusting strategies, goals and priorities.

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 should be willing and eligible to obtain, if required, a security clearance at the Secret (NV1) level.

## **About CSIRO**

We solve the greatest 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.

Find out more about [CSIRO Centre for Earth Observation](https://research.csiro.au/cceo/)

Find out more about [NovaSAR-1](https://www.csiro.au/en/Research/Facilities/NovaSAR-1)

Find out more about [CSIROSat-1](https://www.csiro.au/en/Research/Facilities/CSIROSat-1)

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