# Position Details

## Research Scientist/Engineer- CSOF5

|  |  |
| --- | --- |
| The following information is for applicants | |
| Advertised Job Title | Biogeochemical Oceanographer |
| Job Reference | 95279 |
| Tenure | Indefinite  Full-time |
| Salary Range | AU$105,806 – AU$114,500 per annum (pro-rata for part-time) plus up to 15.4% superannuation |
| Location(s) | Hobart, TAS |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | Australian/New Zealand Citizens and Australian Permanent Residents Only |
| Position reports to the | Team Leader, ‘Southern Ocean’ Team |
| Client Focus – Internal | 50% |
| Client Focus – External | 50% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Benoit Legresy via email at [benoit.legresy@csiro.au](mailto:benoit.legresy@csiro.au) or Laura Herraiz Borreguero via email at [laura.herraizborreguero@csiro.au](mailto:laura.herraizborreguero@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. |

**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

The role of Research Scientist/Engineer staff is to conduct innovative research leading to scientific achievements that are aligned with CSIRO’s strategies. They may be engaged in scientific activity ranging from fundamental research to the investigation of specific industry or community problems. They will have the opportunity to build and maintain networks, play a lead role in securing project funds, provide scientific leadership and pursue new ideas and approaches that create new concepts.

The Biogeochemical Oceanographer in this position will have solid experience in Oceanography, Ocean biogeochemistry and extensively dealing with and using BGC Argo floats. As part of the ‘Argo’ project and in the ‘Southern Ocean’ Team, this role plays a central part in ensuring the Australian BGC Argo remains at the state of the art, and gets opportunities to deploy floats in relation with key scientific experiments. The Biogeochemical Oceanographer will be the IMOS BGC-Argo leader for CSIRO, managing the project and interactions with the remaining of the Argo projects, and ensuring the development of the QA/QC procedures. They will interact with the Argo project to plan the Argo floats deployments, and with key scientists and stakeholders to develop opportunities to deploy the BGC Argo floats. They will conduct innovative research leading to scientific achievements that are aligned with CSIRO’s strategies. The Biogeochemical Oceanographer will also regularly engage with the international Argo and BGC Argo community to maintain Australia’s standing, and also engage with collaborations at national and international levels to expand the utilisation and applications of BGC Argo.

While dedicated to the BGC-Argo program, the role involves working in close collaboration with the rest of the CSIRO Argo related projects (IMOS-Argo, AAPP), with the ‘Ocean Carbon Observation’ team and other scientists in other programs.

### Duties and Key Result Areas

* Lead IMOS BGC-Argo Sub-Facility 2023-2027 (R-20223 OD-231018).
* Monitor and maintain the real-time operations of the BGC-Argo Australia program, including the processing and dissemination of data in real-time.
* Liaise with the Argo project coders, oversee the maintenance of an existing suite of software, and contribute to the development of the next generation of software to future-proof the program.
* Work in close relation with the Core Argo team for the Temperature and Salinity standard quality monitoring, and oversee the quality assurance and quality control of the other sensors specific to BGC Argo.
* Manage and monitor the performance of the operational BGC floats, including analysis of their data return and engineering metrics to identify floats that may be developing problems (e.g., slow leaks, groundings, sensor issues), and provide timely adjustment for BGC sensors to the Real Time processing chain.
* Ensure the Delayed Mode QC and continue the development of MATLAB tools. This may require analysing the data from ship CTD at deployment (and sometime participate in voyages) to calibrate the BGC sensors.
* Maintain engagement with the International Argo Data Management Team, and International BGC-Argo teams to ensure that Argo Australia’s data standards comply with international requirements and best practice.
* Contribute to research activities that complement CSIRO strategic priorities, and that use BGC Argo. This could be in any area of oceanography or climate research – but a keen interest in research applications is regarded as essential.
* Contribute to publication of findings in journal papers, conference abstracts, consultancy reports, brochures and web-pages.
* Contribute to effective functioning of a research team.
* Communicate effectively and respect fully with all staff, clients and suppliers in the interests of good business practice, collaboration and enhancement of CSIRO’s reputation.
* Adapt and/or develop original experimental methods/equipment/software/concepts/ ideas in support of existing and further research.
* Work collaboratively as part of a multi-disciplinary, regionally dispersed research team to carry out tasks in support of CSIRO’s scientific objectives.
* Adhere to the spirit and practice of CSIRO’s Values, 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. A PhD (or an equivalent combination of qualifications and research experience) in biogeochemistry.
2. Demonstrated experience in managing research projects.
3. Demonstrated knowledge of the Argo program and experience with the chain of activities involved.
4. Experience in interacting with a wide range of collaborators (technical personnel, scientists, operators) internal and external to the organisation.
5. A demonstrated publication history of authorship on scientific papers in peer reviewed journals and/or reports, grant applications or inventorship on patent applications.

#### Desirable

1. Existing knowledge of the BGC-Argo component.

## **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 teams as well as industry colleagues.
* **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.
* **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.
* **Judgement and Problem Solving:** Investigates underlying issues of complex and ill-defined problems and develops appropriate responses by adapting/creating and testing alternative solutions.
* **Independence:** Plans, sets and works to meet challenging standards and goals for self and/or others. Recognises where endeavours will make the most impact or difference, decides on desired outcome and sets realistic goals to reach this target.
* **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 change.

Special Requirements

Appointment to this role is subject to provision of a pre-employment background check and may be subject to other security/medical/character clearance requirements.

* The successful candidate will undertake a pre-employment background check. 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 greatest challenges through innovative science and technology. Visit [CSIRO Online](http://www.csiro.au/) and CSIRO [Environment Business Unit](https://www.csiro.au/en/about/people/business-units/Environment) for more information.

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

* People First
* Further Together
* Making it Real
* Trusted