# Postdoctoral Fellowship – CSOF4

Role summary for potential applicants

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| Advertised Job Title**:** | Postdoctoral Fellowship in Southern Ocean Dynamics |
| Reference Number**:** | 42965 |
| Classification**:** | CSOF4 |
| Salary Range: | AU $78k to AU $88k plus up to 15.4% superannuation |
| Location**:** | Hobart, TAS, Australia |
| Tenure: | Specified Term of 3 years  |
| Relocation assistance**:** | Will be provided to the successful candidate if required. |
| Applications are open to: | [ ]  Australian Citizens Only[ ]  Australian Citizens and Permanent Residents Only* [x]  All Candidates
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| Functional Area**:** | Research Scientist / Engineer - Postdoc |
| % Client Focus - Internal: | 5%  |
| % Client Focus - External: | 95% |
| Reports to the: | Research Team Leader |
| Number of Direct Reports: | 0 |

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| **Role Overview:** |
| This position arises from establishment of Centre for Southern Hemisphere Ocean Research (CSHOR), which is a joint initiative between the Qingdao National Laboratory for Marine Science (China), CSIRO, University of New South Wales (UNSW) and University of Tasmania (UTAS). The CSHOR objective is to increase investment in ocean-climate research in order to improve our understanding of how the southern hemisphere oceans influence global and regional climate, and how the climate influences these oceans. The position will based in CSIRO, to work on one of many projects funded by CSHOR, to study dynamics of ENSO and the IOD, their impacts, and their response to climate change.**Postdoctoral Fellowships** at CSIRO provide opportunities to scientists and engineers, who have completed their doctorate and have less than three years relevant postdoctoral work experience. These fellowships will help launch their careers, provide experience that will enhance their career prospects, and facilitate the recruitment and development of potential leaders for CSIRO. Postdoctoral Fellows **are appointed for up to three years** and will work closely with a leading Research Scientist or Engineer in their respective field. They carry out innovative, impactful research of strategic importance to CSIRO with the possibility of novel and important scientific outcomes. They present the findings in appropriate publications and at conferences.The **Postdoctoral Fellow in Southern Ocean Dynamics** will use numerical models and ocean observations to advance understanding of the circulation of the Southern Ocean and its role in the climate system. Areas of particular interest to CSHOR include mechanisms of exchange across the Antarctic continental shelf break and their sensitivity to change; investigation of the mechanisms responsible for variability and change in the abyssal ocean; and the dynamics of major Southern Ocean current systems. For this position, we are particularly interested in candidates with the skills and interest to use a combination of model output and ocean observations to develop new insights into Southern Ocean dynamics.The postdoctoral fellow will work in the CSHOR project on “Southern Ocean Dynamics, Circulation and Water Mass Formation“ led by Prof Matthew England at UNSW and Dr Steve Rintoul at CSIRO, and work closely with scientists in the observations-focused CSHOR project “Southern Ocean Observations and Change” led by Dr Rintoul. |

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| **Duties and Key Result Areas:** |
| * Under the supervision of senior research scientists, Dr Steve Rintoul and Prof Matthew England, carry out innovative, impactful research of strategic importance to CSHOR and CSIRO.
* Use numerical simulations and ocean observations to explore and understand Southern Ocean dynamics and the impact of the Southern Ocean on regional and global climate.
* Produce high quality scientific papers suitable for publication in peer-reviewed journals and present your work at scientific conferences.
* Contribute to the development of innovative concepts and ideas for further research.
* Make a contribution to the effective functioning of the research team and help deliver CSIRO’s organisational objectives and plans.
* Work collaboratively with colleagues within your team, the business unit and across CSIRO.
* Communicate effectively and respectfully with all staff, clients and suppliers in the interests of good business practice, collaboration and enhancement of CSIRO’s reputation.
* Adhere to the spirit and practice of CSIRO’s Values, Health, Safety and Environment plans and policies, Diversity initiatives and Zero Harm goals.
* Undertake an appropriate training and development program developed by CSIRO.
* Other duties as directed.

***CSIRO’s postdoctoral training program***is developed between the Postdoctoral Fellow and a CSIRO scientist. The program will focus on enhancing the Fellows’ capabilities to the level expected of an independent researcher and will include on-the-job and course-based development encompassing:* Discipline-specific techniques and protocols
* Professional growth
* Project management
* Communication and influencing skills
* Working and collaborating with others

<http://www.csiro.au/Portals/Careers/Postdoctoral-Fellowships/Postdoctoral-Fellowships.aspx> |

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| **Selection Criteria:** |
| *Under CSIRO policy only those who meet all essential criteria can be appointed****Pre-Requisites:***1. **Education/Qualifications:** A doctorate (or will shortly satisfy the requirements of a PhD) in a relevant discipline area, such as physical oceanography and climate sciencewith a strong background and substantial experience in the analysis of ocean observations and/or model results.

***Please note:*** *To be eligible for this role you must have* ***no more than 3 years*** *of relevant full time postdoctoral experience.*1. **Communication: High level written and oral communication skills with the ability to represent the research team effectively internally and externally, including at national and international conferences.**
2. **Publications: A record of publications in quality, peer reviewed journals.**
3. **Behaviours:** A history of professional and respectful behaviours and attitudes in a collaborative environment.

***Essential Criteria:***1. **Demonstrated understanding of ocean dynamics and the ocean’s role in climate.**
2. Demonstrated skills in analysis and interpretation of oceanographic or related data sets, including a strong grounding in statistical methods, computer programming and data synthesis.
3. Demonstrated **ability to carry out original, independent, and innovative research with a minimum of direct supervision**.
4. **High level written and oral communication skills, as demonstrated by a record of publications in quality scientific journals and of presentations to diverse audiences.**
5. Demonstrated **ability to work effectively as part of a diverse team.**

**Desirable Criteria:**1. **Knowledge of Southern Ocean climate dynamics.**
2. **Experience with analysis of numerical simulations and observations of the ocean and/or atmosphere.**

**CSIRO Values:**As Australia’s Innovation Catalyst, CSIRO has strategic actions underpinned by behaviours aligned to Excellent science, Inclusion, Trust & Respect, Health, Safety & Environment and Deliver on commitments.  In your application and at interview you will need to demonstrate alignment with these behaviours.**Eligibility:**To be appointed as a Postdoctoral Fellow within CSIRO, candidates are required to have **submitted** their PhD at the time of commencement, as a minimum requirement, if PhD conferment has not been obtained. If a candidate has submitted, but their PhD has not yet been formally attained, the starting salary will be CSOF4-1 ($78,479)*.* Upon CSIRO receiving written confirmation that the PhD has been awarded (within a six month period from commencement date), the salary will be increased to the negotiated level and the difference will be back-paid to the Officer’s start date.***Other special requirements:****Appointment to this role may be subject to conditions including security/medical/character clearance requirements. Applicants who are not Australian Citizens or Permanent Residents may be required to undergo additional security clearance processes; which may include medical examinations and an international standardised test of English language proficiency (i.e. IELTS test).-* [*http://www.ielts.org/default.aspx*](http://www.ielts.org/default.aspx) |

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| **Other Information:** |
| **How to Apply**Please apply for this position online at [www.csiro.au/careers](http://www.csiro.au/careers). You may be asked to provide additional information (online) relevant to the selection criteria. If so, then responding will enhance your application so please take the time to provide relevant succinct answers. Applicants who do not provide the information when requested may not be considered.If you experience difficulties applying online call 1300 301 509 and someone will be able to assist you. Outside business hours please email: csiro-careers@csiro.au. **Referees**: If you do not already have the names and contact details of two previous supervisors or academic/ professional referees included in your resume/CV please add these before uploading your CV.**Contact:** If after reading the selection documentation you require further information please contact: Dr Steve Rintoulvia email: Steve.Rintoul@csiro.au or phone: +61 3 62325393Please do not email your application directly to Dr Wijffels. Applications received via this method will not be considered.**About CSIRO**Australia is founding its future on science and innovation. Its national science agency, the Commonwealth Scientific and Industrial Research Organisation (CSIRO) is a powerhouse of ideas, technologies and skills for building prosperity, growth, health and sustainability. It serves governments, industries, business and communities across the nation. Find out more! [www.csiro.au](http://www.csiro.au). **CSIRO Oceans and Atmosphere** CSIRO Ocean and Atmosphere is uniquely placed to deliver significant economic, social and environmental benefits for Australia and the region. We seek to secure Australia’s future through our seas and skies.**What CSIRO offers you**Hobart is home to the largest co-located team of bluewater oceanographers and ocean climate scientists in Australia. CSIRO works closely with the University of Tasmania, the Australian Antarctic Division, the Integrated Marine Observing System and the Antarctic Climate and Ecosystems Cooperative Research Centre. CSIRO scientists also work closely with researchers at other institutions in Australia and overseas. This team is recognised globally as a leader in ocean climate research. You will benefit from direct access to a group of scientists studying the oceans from the tropics to Antarctica, using both observations and models, and their interaction with the atmosphere, cryosphere and biosphere. A large peer group of Ph. D. students and postdoctoral researchers will enrich your experience. We work with colleagues from around the world and you will have the opportunity to take advantage of these international collaborations. As the national focal point for bluewater ocean research, we organize numerous international workshops and symposia, and host many international visitors. The team has a high diversity across gender and race, and supports a flexible family-friendly workplace.Hobart is a small and sophisticated city flanked on the west by pristine wilderness areas. It has a vibrant arts and music scene. There are many high quality schools located in the city, and quality day-care facilities close to our CSIRO site, which is located on the downtown waterfront. |