# Position Details – Research Scientist/Engineer – CSOF5

Role summary for potential applicants

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| **Advertised Job Title:** | Research Scientist – Coastal and Estuarine Biogeochemist |
| **Reference Number:** | 53421 |
| **Classification:** | CSOF5 |
| **Salary Range:** | AUD $95,369 to AUD $103,205 plus up to 15.4% superannuation |
| **Location:** | Dutton Park, Brisbane, Queensland |
| **Tenure:** | Specified Term of 5 years |
| **Relocation assistance:** | Will be provided to the successful candidate if required. |
| **Applications are open to:** | * All Candidates |
| **Functional Area:** | Research Scientist |
| **% Client Focus - Internal:** | 60% |
| **% Client Focus - External:** | 40% |
| **Reports to the:** | Team Leader, Informatics |
| **Number of direct Reports:** | 0 |

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| **Role Overview:** |
| The role of **Research Scientist** Staff in CSIRO is to conduct innovative research leading to scientific achievements that are aligned with CSIRO's strategies. You may be engaged in scientific activity ranging from fundamental research to the investigation of specific industry or community problems. You 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 role will work closely with the modelling and remote sensing teams as well as other members of the Informatics team. It will work closely with clients and collaborators to deliver products and services and will develop novel approaches to research in the areas of coastal estuarine biogeochemistry in Queensland. The role will also be responsible for the development and maintenance of biogeochemical laboratory facilities and related field equipment at the Ecosciences Precinct in Brisbane. |

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| **Duties and Key Result Areas:** |
| * Incorporate novel approaches to scientific investigations by adapting and/or developing original concepts and ideas for new, existing and further research. * Conduct research on coastal and estuarine biogeochemical processes, particularly carbon and nutrient cycling. * Liaise with environmental modelling and data experts to integrate biogeochemical data into complex models and data visualisation tools. * Organise and conduct coastal sampling activities both within Australia and Internationally. * Undertake analysis and interpretation of biogeochemical data, including the preparation of high quality visual products for use in reports, publications and online. * Communicate effectively and respectfully in the interests of good business practice, collaboration and enhancement of CSIRO’s reputation. * Produce high quality scientific and/or engineering papers suitable for publication in quality journals and for presentation at national and international conferences. * Work effectively as part of a multi-disciplinary, often regionally dispersed research team, to undertake independent scientific investigations and carry out associated tasks under the guidance of more senior Research Scientists/Engineers. * Under the guidance of Senior Research Scientists/ Engineers, work collaboratively and honestly with internal and external colleagues, clients and partners to help define and satisfy objectives for small to medium research projects. * Assist in leading small research projects, including the negotiation of resource requirements. * Provide coaching and on-the-job training to technical staff and students to ensure experiments are established in accordance with research design. * 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. |

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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 in a relevant discipline area, such as marine or coastal biogeochemistry. 2. **Communication:** Strong written and oral communication skills including the ability to publish research results, prepare reports and present the results of scientific investigations at national and international conferences and stakeholder meetings. 3. **Publications: A solid record of publication in quality, peer reviewed journals.** 4. **Collaboration: A history of professional and respectful behaviours and attitudes in a collaborative environment.**   ***Essential Criteria:***   1. Demonstrated experience and understanding of biogeochemical cycling in estuarine and coastal environments, including relevant measurement techniques. 2. Demonstrated experience working with environmental modelling and data experts and a strong knowledge of modelling systems and approaches. 3. Strong knowledge of the processes and procedures associated with the quality assurance of coastal water quality data, and of a range of environmental sensors and instrumentation used in coastal environments. 4. Demonstrated experience with the analysis and interpretation of biogeochemical and environmental data including timeseries analysis, and in organising and conducting field sampling in coastal environments. 5. The ability to work effectively as part of a multi-disciplinary, regionally dispersed research team, and carry out independent individual research, to achieve organisational goals. 6. A record of science innovation and creativity plus the ability & willingness to incorporate novel ideas and approaches into scientific investigations.   **Desirable Criteria:**   1. Knowledge of sensor maintenance, calibration and repair. 2. Familiarity with the operation and maintenance of deployed sensors, including electronics, telemetry and the use of data loggers. 3. Experience with the visualisation of complex water quality datasets.   **CSIRO is a values based organisation. You will need to demonstrate behaviours aligned to our values of:**   * Integrity of Excellent Science * Trust & Respect * Creative Spirit * Delivering on Commitments * Health, Safety & Sustainability |

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| **Other Information:** |
| **How to Apply**  Please apply for this position online at 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](mailto: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:  Mr Jonathan Hodge via email: [jonathan.hodge@csiro.au](mailto:jonathan.hodge@csiro.au) or phone: +61 409 577 945  Please do not email your application directly to Mr Hodge. 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** will support Australia’s prosperity through research underpinning sustainable economic, social, and environmental use of Australia’s marine estate and providing information, technologies, and services to governments, industries, and communities to enable adaption to changing climate and environmental conditions. |