



## Position Details

<b>Advertised Job Title:</b>	Senior Coastal Modeller
<b>Reference Number:</b>	TAS02485
<b>Classification:</b>	CSOF 7
<b>Salary Range:</b>	\$119K - \$132K plus up to 15.4% superannuation
<b>Location:</b>	Hobart, Tasmania
<b>Tenure:</b>	Indefinite
<b>Relocation Assistance:</b>	May be provided to the successful candidate
<b>Residency Status:</b>	Open to International Residents

### Role Overview:

The Coastal Environmental Modelling Team is a core component of the Marine Biogeochemistry Research program within the CSIRO Marine and Atmospheric Research Division.

The Senior Coastal Modeller leads the coastal environmental modelling team, comprising 11 people, including experienced hydrodynamic, sediment and biogeochemical modellers, and software engineers.

The Senior Coastal Modeller will lead the strategic research component of projects, contribute original ideas and concepts and determine the most appropriate strategies to achieve project goals; while undertaking leading edge scientific research and maintaining a strong international reputation and international research collaborations in order to access/share leading edge concepts and technology to advance project goals

The Senior Coastal Modeller will be responsible for ensuring that the team, and the modelling approaches, platforms and tools they develop and apply, remain at the forefront of coastal modelling nationally and internationally.

She/he will work with the team members and senior managers within CSIRO to ensure that the team is deployed effectively to address scientific and environmental management challenges. She/he will represent the team, and CSIRO's coastal marine science more broadly, to external clients and stakeholders, and be able to communicate authoritatively the state of the science and the potential benefits from its applications.

The selected person will have a strong international reputation for research in coastal modelling and a good grasp of the broader field. She/he will be expected to either lead or contribute to major projects

and maintain a strong publication record and engagement with the international science community.

The coastal modelling team has a strong focus on the interaction between models and observations, both through the design and promotion of observing systems, and the development of advanced techniques for model-data fusion. Demonstrated interest and experience in this area would be a particular advantage.

### **Duties:**

- Lead a strong and experienced coastal modelling team, and ensure that the team's capability remains relevant and state-of-the-art.
- Conceive ideas for new projects based on industry/community problems and identify potential sources of funding.
- Undertake leading edge scientific research and maintain a strong international reputation and international research collaborations in order to access/share leading edge concepts and technology to advance project goals
- Represent the team in interactions with senior managers inside and outside CSIRO, to ensure that the team's capability is understood and taken up where appropriate.
- Effectively communicate the capabilities and benefits of coastal marine science and modelling in particular to diverse audiences.
- Develop and lead major research projects, coordinating and collaborating with other researchers, clients and stakeholders, and contributing original ideas and concepts and determine the most appropriate strategies to achieve project goals
- Maintain a strong publication record and communicate research results to clients and the scientific community through oral and written reports
- Encourage and promote advanced coastal observing strategies and techniques for model-data fusion.

### **Selection Criteria:**

*Please note: Under CSIRO policy only applicants who meet all the essential criteria can be appointed*

#### **Pre-Requisite**

1. PhD and at least 10 years research experience in coastal modelling in one or more of the areas of hydrodynamics, sediment dynamics, biogeochemistry and water quality.

#### **Essential Criteria:**

1. A broad understanding of interdisciplinary coastal marine science and the role and applications of modelling.
2. Demonstrated track record in the successful application of coastal modelling and coastal science more broadly to support environmental management
3. Ability to effectively communicate coastal science and its applications to diverse audiences (scientists, clients, stakeholders, community).
4. Demonstrated strong team and project leadership skills, and successful record of developing and leading large research projects.
5. A strong international scientific reputation and publication record

#### **Desirable Criteria**

1. Experience in data assimilation and model-data fusion.
2. Experience with different modelling packages.

**CSIRO is a values based organisation. In your application and at interview you will need to**

**demonstrate behaviours aligned to our values of:**

- Integrity of excellent science
- Building trust and respect each day
- Initiative to explore new horizons
- Delivering on commitments
- Safety and sustainability

**Other Information:**

**How to Apply:** Please apply for this position online at [www.csiro.au/careers](http://www.csiro.au/careers). The manager may ask you to answer questions related to the selection criteria. If so, then responding to these questions will enhance your application so please take the time to provide relevant succinct answers. If specific questions are asked, applicants who do not answer them 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 Peter Thompson by email at [peter.thompson@csiro.au](mailto:peter.thompson@csiro.au) or by phone at +61 3 6232 5298

*Please do not email your application directly to Dr Thompson. Applications received via this method will not be considered.*

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**About CSIRO Marine and Atmospheric Research**

CSIRO Marine and Atmospheric Research is a Business Unit within the Environment Group, one of three Science Research Groups operating within the CSIRO Research Enterprise. CMAR is the largest Business Unit by expenditure and revenue in CSIRO with an annual budget in excess of \$90m and employs over 550 dedicated research and support staff.

CSIRO Marine and Atmospheric Research aims to advance the Australian climate, marine and earth systems science. Our research focuses on issues affecting Australia and the world, and we provide a range of scientific and consulting services that are underpinned by this research.

CSIRO operates a matrix structure with research outputs largely delivered through one of currently six Flagship Programs supplemented by Business Unit Science Themes as appropriate. The Environment Group currently has three Business Units (including CMAR) and two Flagships including Water for a Healthy Country, and Climate and Adaptation National Research Flagship. Additionally, the Division is involved in a joint venture with the Bureau of Meteorology forming the Centre for Australian Weather and Climate Research (CAWCR). CAWCR was established by CSIRO and the Bureau of Meteorology to ensure that Australia remains a world leader in climate, weather and earth systems science research.

CMAR's staff are located at sites in five states: Aspendale, Victoria; Canberra, ACT; Brisbane, Queensland; Floreat, Western Australia; and Hobart, Tasmania, where the Headquarters are located.

CMAR also manages the National Facility – ORV Southern Surveyor.

For further information about CSIRO Marine and Atmospheric Research, visit our website at [www.cmar.csiro.au](http://www.cmar.csiro.au)