Research scientist/Senior Research Scientist, sea level variability and change
Centre for Climate Research Singapore

Deadline for application: 2 November 2018

The Centre for Climate Research Singapore (CCRS) is offering an exciting job opportunity for a research scientist with a background in sea level rise research or related areas to join CCRS. The position will contribute across a portfolio of research topics from global mean sea level rise to projections of local inundation risk in support of the upcoming National Sea Level Programme (NSLP).

**Working conditions and remuneration.**

The position is placed at CCRS, the research department of the Meteorological Service Singapore (MSS). MSS is a division of the National Environment Agency (NEA) of Singapore, which is a statutory board of the Ministry of Environment and Water Resources (MEWR).

Appointments will be for a 2-year initial period with a prospect for extension and/or a permanent position. Annual salaries will be in the range of SGD $55.8K to $120K. The starting salary and the level of entry will depend on experience. In addition to annual salaries, relocation allowances may apply.

**Background**

The Centre for Climate Research Singapore (CCRS) is the research arm of the Meteorological Service Singapore (MSS). The centre has two main research branches: Weather Modelling and Prediction (WMP) and Climate Modelling and Prediction (CMP). For further details refer to the CCRS website at [http://ccrs.weather.gov.sg](http://ccrs.weather.gov.sg).

As a densely populated island city-state situated in the tropics, Singapore is vulnerable to the effects of climate change. CCRS is the leading national research centre building local research expertise in the weather and climate of Singapore and the wider Southeast Asia region. As such, CCRS delivered a National Climate Change Study released in 2015 to inform policy decisions about adaptation and planning and will update this study with a new set of projections coherent with the international research community agenda.

A particularly important issue for a low-lying island state, such as Singapore, is an understanding of potential sea level rise and storm surges, and their impacts. Sea level rise is a complex, multi-disciplinary issue. It involves domain expertise in atmospheric, cryospheric, oceanographic and geological components. Information from these various domain areas need to be integrated and analysed together, and customised to the local geographical context, to provide a complete understanding of local sea level rise. There is a need for a
coordinated programme bringing together local experts and leading international scientists to ensure the science is optimally integrated across a dispersed research community and so that comprehensive and robust projections are delivered. In response to the challenge, Singapore is launching the 5-year National Sea Level Programme (NSLP), which will be coordinated by CCRS and potentially involve a number of local and international research scientists.

The research position will provide scientific support to the NSLP programme manager, the ideal candidate will have experience with ocean models or coupled atmosphere-ocean models, good understanding of the sea level rise issues in climate research. The specific job responsibilities of this position are to:

- Keep abreast with the latest international developments in the area of global sea level rise, including the risk of higher-end sea level projections mainly due to an increased understanding of the cryospheric response, as well as the coastal implications across the southeast Asia tectonically active region;
- Contribute to the completion of required analysis of sea level rise projections emerging from coupled climate simulations and other methods;
- Work with CCRS’ ocean/atmospheric modelling experts to set up and run required simulations to complement findings from other part of the programme;
- Provide advice to the NSLP programme manager regarding appropriate research topics within the scope of the programme;
- Establish working relationships with local research institutions involved in the NSLP to ensure the programme delivers a comprehensive perspective on risks associated with sea level rise;
- Communicate effectively with national agencies involved in sea level adaptation responses and planning under the Resilience Working Group; and
- Publish research findings in peer-reviewed journals.

**Candidate Requirements:**
The ideal candidate will be a highly motivated individual, with a strong technical background. Specifically, applicant must be able to demonstrate that they have:

1. PhD in a research area relevant to the topic of sea level rise;
2. At least 5 years post graduate research experience and a recognised expert in their field (for the Senior Research Scientist level);
3. Good understanding of the complexity of sea level rise issues across the various components;
4. Ability to undertake scientific research independently or with limited supervision;
5. Proficiency in scientific computing and ocean and/or atmospheric modelling;
6. Proven record of success as demonstrated by publications in peer-reviewed journals; and
7. Good written and verbal presentation skills.
Applications Details:
Interested candidates are invited to provide a full application package, including a CV, a publication list and a detailed description of how the candidate fulfils the position requirements. Send applications to: NEA_MSS_Consult@nea.gov.sg. Shortlisted candidates will be notified and contacted for further evaluation.