

Research Fellow (Coastal Engineering/Geological
Engineering/Material Science and Engineering)
Nanyang Technological University

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Posted May 13, 2024, set to expire Apr. 1, 2025

Job Title	Research Fellow (Coastal Engineering/Geological Engineering/Material Science and Engineering)
Department	School of Civil and Environmental Engineering
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	May 13, 2024
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Professional Staff Research Scientist/Associate
Academic Field(s)	Material/Metallurgy Geotechnical Engineering - Other Naval Architecture & Marine Engineering
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Job Description

The Climate Transformation Programme (CTP) aims to develop, inspire and accelerate knowledge-based solutions and educate future leaders to establish the stable climate and environment necessary for resilient, just, and sustainable Southeast Asian societies.

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CTP will generate knowledge and innovation across disciplines including climate and Earth science, ecology, materials science, artificial intelligence, humanities, social sciences and the arts, finance, health, and engineering. It will also translate state-of-the-art scientific results into real world solutions for Singapore, and it will transfer these solutions to Southeast Asia (SEA) and beyond.

As part of this programme, Research Cluster 4: Novel engineering solutions for climate impacts, will explore engineering solutions to adapt to sea-level rise and climate-constrained water resources. The CTP research programme is summarised here: <https://earthobservatory.sg/research/climate/climate-transformation-programme> .

The Research Fellow will be based in School of Civil and Environmental Engineering (CEE) and will be expected to work effectively for advancing the engineering solutions to mitigate the climate change impact which focus on new design concepts for seawalls and coastal defence systems. The position is expected to perform independent and collaborative research to meet the project objectives, to develop new solutions, and to publish high-quality journal papers to promote the international reputation of the Centre and the University.

Key Responsibilities:

- Conduct in-depth research on advanced materials suitable for flexible seawall design and construction, considering durability, environmental impact, and cost-effectiveness.
- Design and oversee laboratory experiments to test the performance of materials under simulated seawall conditions.
- Perform numerical study of the model test. Analyze and interpret data to make informed recommendations for coastal protection system design and optimization
- Writing and publication of results in peer-reviewed journals
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Assist in securing external funding through grant applications and proposals.

Job Requirements:

- PhD in Coastal Engineering, Geological Engineering, Material Science and Engineering or related discipline
- At least 1-year research experience in related area
- Strong background in materials testing, analysis, and selection.
- Expertise in geotechnical foundation and coastal structure design
- Knowledge in ground improvement, finite element analysis, numerical simulation
- Experiences in FEM software (Abaqus, Plaxis, Comsol etc.)
- Publication track record is preferred.
- Proficiency in oral and written English as required to write and publish results in peer-reviewed journals.
- Able to work independently and also collaborate with other researchers.

Kindly note that only short-listed candidates will be notified.

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Contact Information

Please reference Academickeys in your cover letter when
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