

Research Fellow (Mitigating Fire Threats for
Reforestation)
Nanyang Technological University

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Posted Jun. 26, 2024, set to expire May 6, 2025

Job Title	Research Fellow (Mitigating Fire Threats for Reforestation)
Department	Earth Observatory of Singapore
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Jun. 26, 2024
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Professional Staff
Academic Field(s)	Natural Sciences Geography Environmental Sciences/Ecology/Forestry Sciences - General
Job Website	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Fellow--Mitigating-Fire-Threats-for-Reforestation-_R00017617
Apply By Email	
Job Description	

A Research Fellow position is currently available in the Earth Observatory of Singapore (EOS).

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

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for resilient, just, and sustainable Southeast Asian societies.

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, Cluster 3 Climate Mitigation, will assess the permanence and quantification of nature-based solutions for climate mitigation. More information on CTP can be found [here](#).

The Research Fellow will be based in Asian School of the Environment and will work collaboratively within a team and across clusters in CTP to develop research outputs and construct a model for carbon loss under various climate-induced threats. This is a three-year position. One of the threats associated with nature-based solutions and which affect the durability of these solutions, is wildfires. With the onset of climate change and anthropogenic degradation of ecosystems, fires are happening more frequently in tropical forests, especially over peatlands. The research fellow will apply theories and models from a disaster risk science and develop or improve on methodologies that have been used to quantify carbon loss from an ecosystem.

Key Responsibilities:

- Conduct independent research and produce research outputs published in international peer-reviewed journals
- Contribute to achieving deliverables in the project that includes developing a web-based platform for data visualization
- Supervise and mentor, when needed, research team that includes research assistant, PhD

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students and undergraduates

- Contribute to progress reports, project management and administration when needed

Job Requirements:

- PhD in the following disciplines Disaster Risk Science, Ecology, Environmental Science, Geography, Computational Science
- Skilled in data collection, analysis and interpretation
- Familiar with R, QGIS for data processing, analysis and visualization
- Good written and oral communication skills and produce research papers independently
- Preferably with experience with probabilistic wildfire hazard modelling

EOS seeks a diverse and inclusive workforce and is committed to equality of opportunity. We welcome applications from all and recruit on the basis of merit, regardless of age, race, gender, religion, marital status and family responsibilities, or disability.

Interested applicants are invited to submit a cover letter and full CV with contact details of three referees in one document. Enquiries about this position can be made to Assistant Professor Janice Ser Huay Lee (janicelee@ntu.edu.sg). Please send a copy of your application to Assistant Professor Janice Ser Huay Lee. Evaluation of application starts immediately until the position is filled.

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We regret to inform that only shortlisted candidates will be notified.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Earth Observatory of Singapore
Nanyang Technological University
Singapore