

Research Fellow (on low carbon footprint concrete with
biochar and other carbon materials)
Nanyang Technological University

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Posted Apr. 8, 2024, set to expire Apr. 1, 2025

Job Title	Research Fellow (on low carbon footprint concrete with biochar and other carbon materials)
Department	School of Civil and Environmental Engineering
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Apr. 8, 2024
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Professional Staff
Academic Field(s)	Material/Metallurgy Civil Engineering Chemical/Petroleum
Job Website	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Fellow--on-low-carbon-footprint-concrete-with-biochar-and-other-carbon-materials-_R00016722
Apply Online Here	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Fellow--on-low-carbon-footprint-concrete-with-biochar-and-other-carbon-materials-_R00016722
Apply By Email	
Job Description	

The School of Civil and Environmental Engineering (CEE) is a leading school for Sustainable Built

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Environment. The School plays an integral role in spearheading tertiary education, advancing research innovations and providing professional services in a number of key disciplines in Civil and Environmental Engineering and Maritime Studies fields, with the objective of contributing to the technological and economic advancement of Singapore and beyond. The School's mission in research is to achieve excellence by providing a conducive and intellectually stimulating environment to enable high quality work in strategic directions that are of significant impact to industry, science and technology.

CEE is inviting applications for the position of Research Fellow. The Research Fellow will work on a project on the demonstration of and study on continuous thermal hydrolysis and pyrolysis for sludge management and pyrolytic carbon application.

Key Responsibilities:

- Responsible for new low carbon concrete development (e.g. via incorporation of biochar or other carbon materials where they are securely stored but also enhance concrete property in different ways);
- In charge of testing of all relevant aspects of advanced concrete material developed;
- Conduct cost-benefit and LCA analysis of the material developed.

Job Requirements:

- PhD degree from a renowned university in Material Science, Civil Engineering, Chemical Engineering or related fields with relevant research experience/expertise and strong journal publication record.
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Prior experience on similar research and strong record of journal publication and/or IP generation will be favourably reviewed.

- Extensive knowledge on low carbon concrete/geopolymer material.
- Familiar with relevant analytical and experimental technique/skills, hands-on experience as well as solid theoretical background; excellent paper/report writing skills.

We regret 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

Singapore