

Project Officer (Structural Dynamics/Structural Engineering)
Nanyang Technological University

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Posted May 17, 2024, set to expire Apr. 1, 2025

Job Title	Project Officer (Structural Dynamics/Structural Engineering)
Department	School of Civil and Environmental Engineering
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	May 17, 2024
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Professional Staff
Academic Field(s)	Structural Engineering
Job Website	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Project-Officer--Structural-Dynamics-Structural-Engineering-_R00017199
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Job Description	

The Protective Technology Research Centre (PTRC) of NTU is recruiting one project officer for the project on blast resistance of precast structures.

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Key Responsibilities:

- Literature reviews on current precast wall details, and impact, penetration, and close-in blast tests.
- Conduct pre-test simulations and find appropriate details.
- Specimen preparation.
- Prepare test setup and conduct impact and penetration tests
- Conduct post-test analysis and simulations
- Conduct parametric studies to validate.
- Help Research Fellow to draft guideline, test analysis and simulation reports

Job Requirements:

- Bachelor's degree and good grades in courses such as Structural Dynamics and Structural Engineering or related fields.
- Good knowledge of structural dynamics and blast analysis of structure.
- Experienced in using software such as MATLAB, Inventor, HyperMesh and other data analysis tools for numerical simulation and modeling.
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Proficient in using simulation software such as ANSYS or LS-Dyna for complex engineering or physical modeling.

- Experienced in conducting comprehensive literature reviews and incorporating relevant research into reports and papers.
- Experience in dynamic experimental work such as impact and penetration tests (for model validation).
- Good knowledge of data statistics (curve fitting and formula derivation).
- Skilled in writing clear, concise, and structured scientific papers and technical reports.

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