

Research Engineer I (SSHR Digital Learning)
Nanyang Technological University

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Posted Jul. 8, 2024, set to expire May 6, 2025

Job Title	Research Engineer I (SSHR Digital Learning)
Department	School of Social Sciences
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Jul. 8, 2024
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Professional Staff
Academic Field(s)	Computer Engineering Computer Science Bioengineering (all Bio-related fields)
Job Website	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Engineer-I--SSHR-Digital-Learning-_R00017709
Apply Online Here	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Engineer-I--SSHR-Digital-Learning-_R00017709
Apply By Email	
Job Description	

The Baby-LINC Singapore Lab (<https://blogs.ntu.edu.sg/baby-linc/>) is looking for a talented Research Engineer I to join a new research study funded by a Ministry of Education Social Sciences and Humanities Research (SSHR) Fellowship to A/Prof Victoria Leong on *“The digital future of human learning: Social optimisation of digital media for early learning”*. This project aims to develop

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socially-intelligent digital technology to support interactive learning in infants and young children, using dyadic-EEG techniques to monitor brain learning states during social interaction (see Leong et al, 2017 PNAS; Wass et al, 2020 TICS). The Research Engineer I will join a dynamic and friendly international research team which operates in Singapore and in Cambridge (UK), although the data collection for this study will be conducted entirely in Singapore.

Key Responsibilities

- Lead the computational programming and algorithm development for personalized socially-augmented digital avatars, working closely with Prof Nadia Thalmann (a social robotics expert) on the design and customization of the avatars.
- Data collection efforts for the main experimental studies involving over 100 parent-infant dyads.
- Contribute toward data analysis and research publication in one or more of these core domains: dyadic EEG+ECG, eye-tracking, motion tracking, speech analysis, social interaction analysis, computational modelling.
- Help to oversee affiliated research students

Job Requirements

- Bachelor's Degree in Computer Science, Engineering (including Biomedical Engineering), or related Technical and Computational fields
- Strong technical and programming skills, particularly in digital media and/or social robotics, as demonstrated by relevant research publications or other outputs
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Experience with computational modelling and advanced statistical analysis is preferred

- Experience with human psychological data collection and study design is preferred
- Experience with EEG and other forms of neuroimaging data collection and analysis is preferred
- Efficient, organised and self-motivated with the ability to work to tight deadlines
- A good team player with strong interpersonal and communication 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