

Research Engineer I (SSHR Digital Learning)  
Nanyang Technological University

Direct Link: <https://www.AcademicKeys.com/r?job=239068>

Downloaded On: Aug. 8, 2024 12:30pm

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

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

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