Post-doctoral Fellow / Senior Research Assistant / Research Assistant I
(Ref: 2401401)
Department of Mathematics and Information Technology

Project Title: Developing Hong Kong students' critical thinking-driven prompt engineering education for enhanced self-efficacy and problem-solving ability in the AI era: A design-based research approach

[Appointment Period: around 6 months]

This project aims to propose a critical thinking-driven prompt engineering (CTPE) educational framework and a set of human-AI interactive learning design principles based on collected feedback. Additionally, the project will evaluate and validate the CTPE educational framework for its impact on students' learning self-efficacy and problem-solving ability.

The appointee will be responsible for supporting the project. He/she will assist in building AI chatbots experiment design, searching literature, analyzing learners' trace data, conversation record with chatbot, survey and interview data, writing the reports, managing administrative work, supervising part-time research assistant and doctoral students, and performing other duties as assigned by the project leader(s). The initial appointment will be for a period of around 6 months with the possibility of renewal subject to mutual agreement.

Applicants for Post-doctoral Fellow should have a Doctoral degree in Education Technology or Computer Science, plus good publication record and track record in research experience. Applicants for Senior Research Assistant should have a Master's degree in Education Technology or Education related majors, plus one year's post-Master's degree full-time working experience, or a doctorate in the abovementioned disciplines, along with a good publication record. Applicants for Research Assistant I should have a Bachelor's degree in Education Technology or Education related majors, along with good experience in program development and research.

Applicants should have strong leadership and coordination skills to manage projects in team settings, and the ability to handle challenging situations tactfully, strong presentation and negotiation skills to liaise with internal and external stakeholders, with strong interpersonal, organization and communication skills, a high level of proficiency in both English and Chinese. Knowledge in statistical analysis software (e.g. MPlus, Stata, R studio, Python) and experience in epistemic and social network analysis as well as process mining would be an advantage.

For further enquiries about the post, please contact Dr. Bai Shurui Tiffany at tstbai@eduhk.hk.

Salary will be commensurate with qualifications and experience. Fringe benefits include leave and outpatient medical benefits.

The University only accepts and considers applications submitted online for this post. Applicants should complete the online application form and upload a full CV. **Review of applications will start from 20 December 2024, and will continue until the post are filled.** Applications which are incomplete or without the required documents may not be considered. Personal data provided by applicants will be used for recruitment and other employment-related purposes. For details of the Personal Information Collection Statement, please refer to http://www.eduhk.hk/jobsopp/index.php?glang=en.

All applications will be treated in strict confidence. Only those who are shortlisted will be contacted. The University reserves the right not to fill the position(s) advertised.

Further information about the University is available at *http://www.eduhk.hk.*

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