Research Assistant(s) / Junior Research Assistant(s) at CUHK BME (Full-time / Part-time)

Principal Investigator: Prof. Raymond Tong Kai Yu from Department of Biomedical Engineering, The Chinese University of Hong Kong.

Project Title/Lab Name:

CUHK Jockey Club HOPE 4 Care Programme – AR (Augmented Reality) Rehabilitation Training System

Online AR Training Platform for the Elderly and Persons with Chronic Diseases at Home

Abstract/Description:

These projects aim to develop and deploy a visual intelligence software product to facilitate physical rehabilitation for stroke survivors and the elderly in local rehabilitation centers. The objectives of this project are:

(i) to facilitate better upper limb, lower limb and balance recovery on more stroke survivors and the elderly in society with the AR Rehabilitation System design,
(ii) to undertake algorithm optimization for efficient execution,
(iii) to develop more functions and improve existing system performance.

Job Requirements:

(i) **Major in Software Engineering, Computer Science, Information Engineering, Computing, Electrical Engineering or other related disciplines**;
(ii) Research Assistant: a Bachelor’s/Master's degree in the abovementioned discipline, preferably with at least one year's post-qualification experience. Those with less experience may be considered for appointment as Junior Research Assistant; Junior Research Assistant: Fresh graduates of the above-mentioned disciplines.
(iii) Strong self-motivation, a good sense of responsibility and problem-solving skills;
(iv) Good communication (basic Cantonese is preferred) and writing skills; and
(v) Good development and debugging skills in using at least one of the following languages: C, C++, C#, Python and JAVA. Experience in Augmented Reality (AR), data analytics, machine learning are preferred.

Job Duties:

(a) assist in project as assigned;
(b) develop visual intelligence software product, which is easy-of-use to customer and bring the best accuracy/performance;
(c) test, release and improve software based on customer's feedbacks independently;
(d) deploy and maintain the system in users’ homes and rehabilitation centres;
(e) conduct clinical trials with unimpaired subjects, persons after stroke and persons with disability;
(f) undertake algorithm optimization for efficient execution; and
(g) analyze data, write documents, papers and reports.

Applicants may seek more information from Dr. Jessica Yang at jessicayang@cuhk.edu.hk or Professor Raymond Tong at kytong@cuhk.edu.hk. Please submit your application by filling in the google form https://forms.gle/39iDkwxJfhK3F3Bs5 on or before 31 July, 2021.