

## Call for Graduate Research Assistant

**Project Title:** **Dynamic Indoor Positioning Using Deep Belief Network and Wi-Fi Fingerprinting**

**Description:** In the Internet of Things era, indoor positioning systems have become the subject of intense research in academia and industry due to increasing demands on location based services. Owing to the effects of non-line-of-sight in indoor environments, traditional geometric positioning methods based on time of arrival, time difference of arrival, or angle of arrival may lead to erroneous position estimate.

**Source of Funding:** Fundamental Research Grant Scheme

**Monthly Stipend:** RM 1800

**Location:** Faculty of Engineering, Multimedia University, Cyberjaya, Malaysia.

### **Responsibilities:**

- Design a novel **machine learning based positioning technique** that provides high precision in dynamic indoor environments.
- Develop and implement an indoor positioning prototype that leverages on machine learning.
- Prepare technical documentations and scientific articles.
- Enroll as a full-time candidate of Master in Engineering Science (M.Eng.Sc) at the Faculty of Engineering, Multimedia University, Cyberjaya, Malaysia.
- Carry out any relevant administrative work/purchasing matters as requested.

### **Requirements:**

- Bachelor's degree with honors in a field related to computer engineering, telecommunication engineering, electronics engineering, electrical engineering nanotechnology engineering, or computer science discipline, preferably 2nd class or above.
- Some knowledge in artificial intelligence/machine learning are advantageous.
- Proficiency in Python or MATLAB programming languages is preferred.
- Excellent command in written and oral English.
- Able to work with minimal supervision, self-motivated and independent.

Interested applicants may submit their resumes via email to Dr. Ng Yin Hoe (yhng@mmu.edu.my). Only short-listed candidates will be contacted for interview.