

THE HONG KONG POLYTECHNIC UNIVERSITY
Department of Electronic and Information Engineering

We are looking for highly motivated **Research Assistant** who is interested in research in audio and acoustic signal processing, machine learning and deep learning, and smart cities for an Innovation and Technology Fund (ITF) project on **Visual-audio Cross-modal A.I. Platform for Identifying Vehicle Noise**

Prospective candidates should have:

- Completed a Masters and/or Bachelor degrees from a top university in one of the following fields: electrical and electronic engineering, computer science, information engineering, applied mathematics, or other related fields.
- Applicants must have a first class or good second upper class honors degree or equivalent in their undergraduate degree.
- Proficient in English and with good writing skills.
- Good analytical, math and programming skills (e.g., C/C++, Python, Matlab, etc.).
- Knowledge and experience in audio and acoustic signal processing, machine learning and deep learning is a preference.

The position is expected to start in May 2021 or until the position is filled. The duration of the contract will be 12 months. The appointee is expected to participate in the development of an acoustic model which represents the relationship between audio signals and sound signature; conduct simulation to test and compare the performance of different sound representations (e.g., mono vs stereo, raw waveform vs spectrogram); and prepare technical and progress reports that summarize the findings.

Applicants please send your cover letter, resume, transcripts, certificates, and [HR form 7A](#) to Dr Ivan W. H. HO (ivanwh.ho@polyu.edu.hk) or Prof. Man Wai MAK (man.wai.mak@polyu.edu.hk). A highly competitive remuneration package will be offered. Applicants should state their current and expected salary in the application.