



Red Bird MPhil Program



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Introduction

Red Bird MPhil (RBM) Program* is HKUST(GZ)'s key vehicle for practising and promoting the interdisciplinary "Hub Concept" in cultivating talented young people. Based on the notion of student-centredness, students, academic supervisors from hubs/thrusts, industry advisors and project mentors work together to complete group projects and teaching tasks. Students develop quickly in this total immersion in knowledge and skill.

Uniqueness

- Project-based active learning model, encouraging students to form project teams to conduct research on integrated systems with challenging group project goals.
- Well-designed group projects that practise the Hub Concept, are multidisciplinary and driven by real needs, are proposed by students, industry partners, academic faculties, or other channels.
- Empower students to gain interdisciplinary knowledge, practicing team spirit and project management skills through project development process.
- Breakthrough the traditional classroom, modularized courses are embedded into projects to ensure students get the best out of them.
- Individual projects have a clearly defined research content to ensure student who has completed the projects successfully are able to meet the MPhil academic requirements of HKUST.

Vice-President (Teaching & Learning)



Prof. Jingsheng WU

Professor Jingsheng WU oversees policy directions and procedures for the University's teaching and learning including quality assurance, innovation in teaching pedagogy, and academic integrity and creativity in HKUST(GZ). He is also a professor of the Smart Manufacturing Thrust Area under the Systems Hub.

Prior to joining HKUST(GZ), Prof. Wu was the Founding Dean and the Chair Professor of the School of System Design and Intelligent Manufacturing (SDIM) at the Southern University of Science & Technology. Before that, he was a long-time faculty member at the Department of Mechanical and Aerospace Engineering of HKUST.

As early as 2007, Prof. Wu was appointed as the Associate Dean (Research) of the Fok Ying Tung Research Institute of HKUST and founded the Centre for Engineering Materials and Reliability (CEMAR) in Nansha, Guangzhou. From 1994 to 1996, Prof. Wu was awarded a prominent Postdoctoral Research Fellowship from the Australian Research Council (ARC) to develop high-strength and high-toughness nanocomposites. His research outcomes are highly cited by researchers in the field and have received widespread media coverage in Australia. He is a senior consultant/advisor of NXP, Huawei, Kingfa, and Sinopec and a guest professor at several universities.

* Please note that all applicants interested in the Red Bird MPhil program should apply for "Master of Philosophy (General)" in the Online Application System.

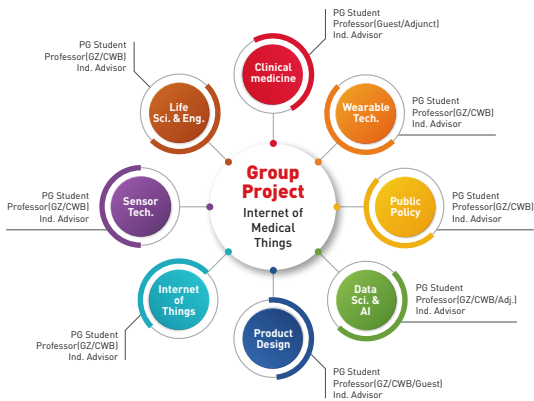


Illustration showing Red Bird MPhil (RBM) multidisciplinary group projects' concept

Red Bird MPhil (RBM) students, as the main contributor of the projects, are supervised by both academic and industry supervisors to ensure the deliverables of individual projects. This project-based system allows supervisors and students to synergize diverse knowledge from multiple disciplines and collaboratively contribute to the success of the team project.

Makerspace



Our Makerspaces are specially designed for students to finish and display their projects. Spacious and well-equipped, Makerspaces enable students to turn ideas into reality.

Student Sharing

What most attracted me to the Red Bird MPhil Program was its unique educational model. After my undergraduate program studies, I was still confused about what industry and field I should pursue in the future. To help us identify the most suitable research direction, RBM provides seminars and field trips during the first 6 months of enrollment so that we can build up a sense of innovation and form project groups.

Fengrui HUA from Liaoning, China
RBM Program Student



In my opinion, RBM is the most attractive project for training modern high-tech talent. Here we are free to communicate with students from various disciplines and discuss with top teachers in cutting-edge fields.

Yuqi DENG from Guangdong, China
RBM Program Student