

PolyU-led projects awarded Research Impact Fund 2022/23

Project	Description	Project Coordinator	Budget to be Funded by the RGC* (HKD)
A novel approach to target cancer stemness using peptidic chimeric antigen receptor (pCAR) macrophages	New scientific knowledge for a novel therapeutic strategy against liver cancer stem cells for hepatocellular carcinoma	Prof. LEE Kin-wah Terence Department of Applied Biology and Chemical Technology (in collaboration with HKU)	\$4,150,000
Flexible and Stretchable Batteries for Wearable Applications	For wearable technologies, smart electronic textiles, electronic skins, soft robotics, bioelectronics and the Internet of Things	Prof. ZHENG Zijian Department of Applied Biology and Chemical Technology (in collaboration with CityU and CUHK)	\$5,550,000
Achieving the Circular Economy in Construction through Deconstruction and Reuse Technologies for Steel and Composite Structures	Developing productive construction technologies through advanced engineering methods and management strategies	Dr Tak-Ming CHAN Department of Civil and Environmental Engineering (in collaboration with CityU and HKU)	\$9,750,000
Next Generation of In-situ Precision Three-dimensional Surface Metrology: A Smart Self-adaptive Multiscopic Approach for Industrial 4.0	Can be embedded in different machine tools, manufacturing equipment and portable measurement devices under various manufacturing or measurement scenarios for Industry 4.0	Prof. Benny C.F. CHEUNG Department of Industrial & Systems Engineering (in collaboration with HKU)	\$4,650,000

Press Release
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Industry 4.0 Smart Prefabrication Yard for Modular Construction Fitout	Bringing benefits to housing production and supply in Hong Kong with smart prefabrication yard innovations	Prof. George Q. HUANG Department of Industrial & Systems Engineering (in collaboration with HKU)	\$3,450,000

*The RGC funds 70% of the project cost while university / organisational partner(s) will match the remaining 30% of the project cost.