

**PolyU-led projects receiving the Research Impact Fund 2023/24**

<b>Project</b>	<b>Description</b>	<b>Project Coordinator</b>	<b>Budget to be Funded by the RGC* (HK\$)</b>
Development of Bacterial Pseudaminic Acid-based Vaccine to Combat Infections Caused by Multidrug Resistant Bacteria	A new way to combat bacterial infections, which aims to slow down or halt the onset of the post-antibiotic era	Prof. Chen Sheng Head and Chair Professor of Microbiology, Department of Food Science and Nutrition (in collaboration with HKU)	4,200,000
Digital Twin-enabled Intelligent Assessment and Maintenance of Offshore Wind Turbine Structures in a Life-cycle Context	A novel mobile sensing and digital twin technology for monitoring the structural deterioration of offshore wind turbines	Prof. Zhu Songye Associate Head and Professor, Department of Civil and Environmental Engineering (in collaboration with CityU and HKUST)	4,970,000
An AI-enabled Geospatial Platform for Smart Facility Management and Smart Mobility of People with Disabilities	Introduction of a dedicated smart mobility solution to enhance the travel experience for people with disabilities and the elderly	Dr Liu Xintao Associate Professor, Department of Land Surveying and Geo- Informatics (in collaboration with HKBU and HKUST)	4,320,000
Durable Low-carbon Asphalt Pavement Built with Recycled Waste Polyolefin Plastics through Reactive Extrusion	A flexible, economical and value-added physico-chemical approach to recycling waste polyolefin plastics into low-carbon and durable asphalt pavement	Prof. Leng Zhen Professor, Department of Civil and Environmental Engineering (in collaboration with HKU)	4,060,000
Developing a New Generation of Pressure-controlled Wearable Soft Braces to Improve the Efficiency and Compliance in Treating Adolescent Idiopathic Scoliosis	Providing effective and comfortable pressure-controlled wearable soft braces for adolescent idiopathic scoliosis patients	Prof. Yip Yiu-wan Joanne Associate Dean and Professor, School of Fashion and Textiles (in collaboration with HKU and CUHK)	3,350,000

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