

**City University of Hong Kong, CSE Summer Internship Program Project list
(Program date: 6/20-8/6, 2016)**

Department	Project Title	No. of Vacancy
Architecture and Civil Engineering	Virtual Design and Construction with BIM and Internet of Things (IOT)	3
	Green BIM and Sustainable Buildings	2
	Augmented Reality and Virtual Reality on Mobile Devices	3
	Systematic comparison of integrated project delivery (IPD) cases to derive effective ways to succeed	1
	Experimental study of flame retardant polystyrene	1
	Artificial Neural Network Modelling Based fire risk analysis	1
	Data base development and analysis for Escalators and their Safety in Metro Stations	1
	Modeling passenger flow in metro system	1
Biology and Chemistry	Toxicology -Next generation toxicity assessment	2
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	Theoretical studies of redox reactions of transient metal ions in the gas phase	2
Biomedical Sciences	Cancer and Viruses	1
	Synthesis and Photophysical Study of Phthalocyanine-based Photosensitizers for Photodynamic Therapy	1
Computer Science	Object Saliency Detection (see http://www.cs.cityu.edu.hk/~rynson/projects/objects/ObjDetection.html for more information) good programming and mathematical skills is required	2
	Gamification of Mathematics for Personalized Learning	2
	Viral Marketing in Online Social Networks	2
	Human Genome Research	5
	GPU-accelerated applications for high impact scientific research	5
	General Education System for Exploring Human Genetics	5
	Geographical Information System for Analyzing and Predicting Natural Disasters	5
	Big Data Analytics for Hong Kong Government Open Data	5
	Airline reliability evaluation and software development	5
	Big Data Analytics on Airline Ticket Pricing	5
	Text Mining and High Impact Applications	5
	Network Analysis and High Impact Applications	5
	Multiobjective Optimization Research	5
	Health-aware food recommendation	2
	Query-by-sketch for known-item image search	2
Electronic Engineering	Cloud and wireless platform for Healthcare development	3
	Neuromuscular Bases of Finger Coordination	1
	Light-Induced Locomotor Response of Zebrafish During Early Development	1
	Music and Emotion	1
	Changes in Complex Brain Network During Learning	1
Mechanical and Biomedical Engineering	Development of photoacoustic tomography for monitoring cancer treatment	3
	Effect of bottom geometries of dimples/grooves on tribological behaviors under wet lubrication	2
	Study of load carrying capacity of slider bearings using optical interferometry	1
	Data and service retrieval for Internet of Robots	2
	Visible light communication-based low-cost indoor precise localization	2
	Object recognition and manipulation by a dual-arm robotic platform	2
	Extrinsic calibration of cameras and laser range finders for outdoor SLAM	2
	Semi-autonomous mobile robot control by Leap gesture sensor	2
	"Artificial Bamboo": a Hierarchical Cellular Microstructured Green Structural Material	1
Physics and Materials Science	Magneto-transport in a strongly correlated electron system	1
	Logarithmic relaxation process under three dimensional confinements	2
	Optical properties of self assembled ZnO nanorod arrays	1
	Nanoimprint techniques for advanced plasmonic sensors	1
	Nanoscale Structure Determination by Small Angle X-ray Scattering	2
Systems Engineering and Engineering Management	Visual analysis of air traffic in the age of Big Data	1
	Study of statistical control chart for the monitoring of time-between-events	1
	Twitter App for Depression Detection	2