

Nano and Advanced Materials Institute Limited
 納米及先進材料研發院有限公司
R&D Projects as at end June 2007
 研發項目(截至 2007 年 6 月)

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時(月)	Approved Project Cost 開支總額 (HK\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
					R&D Organisation 研發機構	Industry Partner 業界夥伴
Platform Research 平台研究						
1.	LED Arrays on Silicon Substrates by Flip-chip Technology 矽基底上倒封裝 LED 陣列	24	4,005,100	17%	- Hong Kong University of Science and Technology 香港科技大學	- Two private companies 兩家私營公司
Collaborative Research 合作研究						
2.	Functional Nanocoatings for Energy Saving Applications 用於節能應用的功能納米塗層	12	1,999,999	51%	- Nano and Advanced Materials Institute Limited 納米及先進材料研發院有限公司	- A private company 一家私營公司
3.	Industrialization of Liquid TiO ₂ Hydrosol Production and Extensive Applications for Indoor Air Purification 二氧化鈦溶膠產業化及其應用於室內空氣淨化示範研究	12	1,995,150	30%	- The Hong Kong Polytechnic University 香港理工大學	- A private company 一家私營公司
4.	Demonstration Line for the Production of Low-cost Humidity Sensor 低成本濕度探測器示範生產線	12	583,332	30%	- The Hong Kong University of Science and Technology 香港科技大學	- A private company 一家私營公司
5.	Industrial Scale Sonochemical Fabrication of Mesoporous Photocatalysts 中孔光催化劑的聲化學工業化製備	27	1,000,000	30%	- The Chinese University of Hong Kong 香港中文大學	- A private company 一家私營公司
6.	Nano-enhanced Hot-dip Galvanizing Process 納米熱浸鍍鋅技術	24	2,500,000	30%	- Nano and Advanced Materials Institute Limited 納米及先進材料研發院有限公司	- A private company 一家私營公司

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<i>Contract Research 合同研究</i>						
7.	Development of High Strength Composite Fibres 高强度複合纖維的研製	6	158,700	100%	- Nano and Advanced Materials Institute Limited 納米及先進材料研發院有 限公司	- A private company 一家私營公司
8.	Formulation of Nano creams and pastes 納米乳脂配方的研製	12	579,600	100%	- Nano and Advanced Materials Institute Limited 納米及先進材料研發院有 限公司	- A private company 一家私營公司

The Hong Kong Research Institute of Textiles and Apparel Limited
 香港紡織及成衣研發中心
R&D Projects as at end June 2007
 研發項目(截至 2007 年 6 月)

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<i>Platform Research 平台研究</i>						
1.	Biofunctional Materials and Applications 生物功能材料研究與應用	12	4,469,800	16%	- The Hong Kong Polytechnic University 香港理工大學	- Seven private companies 七家私營公司 - A semi-government organisation 一家半官方機構
2.	Advanced Clothing Functional Design CAD Technologies 先進服裝功能設計 CAD 技術	12	4,082,800	13%	- The Hong Kong Polytechnic University 香港理工大學	- Four private companies 四家私營公司 - A semi-government organisation 一家半官方機構
3.	Finer Nu-Torque Cotton Yarn Production 高支扭妥棉紗生產技術	18	2,380,950	11%	- The Hong Kong Polytechnic University 香港理工大學	- Two private companies 兩家私營公司
4.	Advanced Textile and Garment Manufacturing Process Technology 先進紡織品及服裝製造流程技術	18	3,908,984	14%	- The Hong Kong Polytechnic University 香港理工大學	- Six private companies 六家私營公司
5.	Development of a Laboratory-Scale Electrochemical Mercerization and Bleaching System for Technological Evaluation 發展一套實驗室規模的電化學絲光漂白工藝用於技術的評估	12	997,620	2%*	- Hong Kong Productivity Council 香港生產力促進局	- Two private companies 兩家私營公司

* This can be considered to be a seed project which is exploratory and innovative in nature. For this reason, the level of industry contribution is comparatively smaller.
 此項目可被視為一項具前瞻性和創新的種子項目，故此項目的業界贊助水平相對較低。

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6.	Development of an Innovative Finishing System for Wet Processing of Garments and Accessories 開發一台創新設計可作成衣和輔料後整的濕整理系統	12	1,689,450	14%	- Hong Kong Productivity Council 香港生產力促進局	- Five private companies 五家私營公司
7.	Advanced Functional Surface Treatment Technology for Textile Materials 先進紡織材料功能性處理技術	18	4,752,000	16%	- The Hong Kong Polytechnic University 香港理工大學	- Four private companies 四家私營公司
8.	Imaging Colour Measurement (ICM) System for Textile and Garment Industry 用於紡織及服裝工業的成像顏色測量系統	18	4,372,050	11%	- The Hong Kong Polytechnic University 香港理工大學 - Zhejiang University 浙江大學	- Four private companies 四家私營公司
9.	Development of Shape Memory Knitted Fabrics/Garments 形狀記憶針織服裝及其紡織品的開發	24	11,000,000	9%	- The Hong Kong Polytechnic University 香港理工大學	- Six private companies 六家私營公司
10.	Development of Fabric Structure Analysis and Appearance Evaluation System 織物結構分析和外觀評估系統的開發	21	2,864,250	12%	- The Hong Kong Polytechnic University 香港理工大學	- Three private companies 三家私營公司

Hong Kong R&D Centre for Logistics and Supply Chain Management Enabling Technologies Limited
 香港物流及供應鏈管理應用技術研發中心有限公司
R&D Projects as at end June 2007
 研發項目(截至 2007 年 6 月)

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<i>Platform Research 平台研究</i>						
1.	Study the Design Challenges of 90nm Technology UHF RFID Tag IC 90nm 工藝 UHF RFID 標籤 IC 之設計研究	18	2,249,965	11%	- The Chinese University of Hong Kong 香港中文大學	- Two private companies 兩家私營公司
2.	An eLogistics Appliance with Data Exchange and Conversion Technologies for Infrastructure Connectivity 電子物流設備 - 連接電子物流基礎建設的數據轉換及交換技術	18	6,649,600	10%	- The University of Hong Kong 香港大學	- Five private companies 五家私營公司
3.	RFID Benchmarking: Methodology and Practice 無線射頻識別基準測試的關鍵技術之方法及應用	18	2,218,465	10%	- Hong Kong University of Science and Technology 香港科技大學	- Five private companies 五家私營公司
4.	RFID Enabling Technologies for Retail & Logistics Industry 支援零售及物流應用射頻識別技術之軟件平臺	12	7,378,475	21%	- The University of Hong Kong 香港大學	- Airport Authority Hong Kong 香港機場管理局 - Ten private companies 十家私營公司
5.	RFID-based Interoperable Gateway for Logistics Service Platforms (RIG) 用於物流服務平臺互聯互通射頻識別交換閘 (RIG)	16	11,329,250	12%	- Hong Kong R&D Centre for Logistics and Supply Chain Management Enabling Technologies 香港物流及供應鏈管理應用技術研發中心	- Seven private companies 七家私營公司
6.	Integrated Passive UHF RFID Tags and Readers 集成無源 UHF 射頻識別讀取器和卷標	18	7,730,500	10%	- The Hong Kong University of Science and Technology 香港科技大學	- Four private companies 四家私營公司

Automotive Parts and Accessory Systems R&D Centre Limited
 汽車零部件研究及發展中心有限公司
R&D Projects as at end June 2007
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Platform Research 平台研究						
1.	Battery-less Tire Pressure Monitoring System 無電池輪胎壓力監測系統	12	1,800,000	22%	- Hong Kong Productivity Council 香港生產力促進局 - The Chinese University of Hong Kong 香港中文大學	- Three private companies 三家私營公司
2.	Low Cost Direct Drive for Electric Vehicles 發展電動車的低成本直接驅動器	18	4,570,900	10%	- The Hong Kong Polytechnic University 香港理工大學	- Three private companies 三家私營公司
3.	Powder Metal Forming Technology for High Temperature Light Weight Aluminum-Titanium Alloys 高溫金屬粉末成形技術用於製造輕鋁鈦合金	18	3,295,087	21%	- City University of Hong Kong 香港城市大學	- Three private companies 三家私營公司
4.	Development of Microcellular Foam Injection Moulding Technology Incorporated with Co-injection Technology for Producing High Quality and Value-added Plastic Automotive Parts 開發微發泡注塑與共注塑結合技術於生產高質量及高增值塑料汽車部件	18	3,699,420	11%	- Hong Kong Productivity Council 香港生產力促進局	- Four private companies 四家私營公司

The Hong Kong Applied Science and Technology Research Institute Company Limited
 香港應用科技研究院有限公司
R&D Projects as at end June 2007
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<i>Platform Research 平台研究</i>						
1.	Advanced Broadband Wireless Technologies Platform 先進無線寬帶技術平台	17	14,430,179	10%	- The Hong Kong Applied Science and Technology Research Institute (ASTRI) 香港應用科技研究院(應科院)	- A private company 一家私營公司
2.	Customizable Element Management System (EMS) for Wireless Networks: CWMS 可定制無線網絡網元管理系統	17	9,795,858	11%	- ASTRI 應科院	- A private company 一家私營公司
3.	LED for General Lighting – Area Light Source (Phase 1) LED 於一般照明之面光源應用 (第一階段)	20	14,849,140	15%	- ASTRI 應科院	Nil
4.	Wireless Personal Area Networking and Streaming Media Access Control WPAN 多媒體資訊流的協議處理器之開發和應用	18	16,105,052	14%	- ASTRI 應科院	- Intelligent Grouping & Resource Sharing 閃聯聯盟 - A private company 一家私營公司
5.	High Definition TV Technologies Applied Research Platform 高清電視技術應用研究平臺	24	13,868,419	10%	- ASTRI 應科院	Nil
6.	Portable Dual Mode Wireless and Broadcast Multimedia Platform (Phase 1) 數位廣播及無線網路多模移動多媒體平臺 (第一階段)	6	6,133,736	1%	- ASTRI 應科院	Nil
7.	Smart Optical Sensors 智能光學傳感器	18	12,060,000	10%	- ASTRI 應科院	- Two private companies 兩家私營公司

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8.	Advanced Indoor MIMO Platform 先進室內多輸入多輸出平台	18	14,823,908	10%	- ASTRI 應科院	Nil
9.	Multi-Media Platform for Algorithm & Application Development (MMP-EMU) (Phase-1) [®] 開發多媒體應用系統平台 [®]	9	8,973,500	0%	- ASTRI 應科院	Nil
10.	Application Specific AMS IC Design Platform for Integrated CCD Image Sensor Processing 用於 CCD 圖像傳感處理的混合信號專用集成電路設計平臺	18	11,944,060	9%	- ASTRI 應科院	Nil
11.	Power Management Integrated Circuits for Portable Consumer Electronics 用於攜帶型消費電子產品的電源管理積體電路	12	8,762,000	11%	- ASTRI 應科院	Nil
12.	Digital Living Platform Full Project 數碼生活科技平台	12	4,870,582	11%	- ASTRI 應科院	Nil
13.	High Dynamic Range (HDR) Display System - Using Active-Dynamic LED Backlight 主動式動態 LED 背光在高動態範圍顯示系統的應用	17	15,410,200	10%	- ASTRI 應科院	Nil
14.	Digital Living Platform [#] 數碼生活科技平台 [#]	6	1,595,000	0%	- ASTRI 應科院	Nil
15.	Low-Cost Solution for High-Performance and High-Density Packaging [#] 高功能與高密度電子構裝之低成本方案 [#]	6	1,830,000	0%	- ASTRI 應科院	Nil
16.	Digital Multimedia Broadcast Terrestrial (DMB-T) Television Baseband Demodulator Development [#] 地面數字多媒體廣播(DMB-T)電視基帶解調開發 [#]	6	1,985,000	0%	- ASTRI 應科院	Nil

[®] This is the first phase pilot study. Subject to satisfactory completion of the first phase, the project will be extended to cover its second stage. The industry contribution requirement will be imposed as appropriate, subject to review.

這是第一階段的試點研究。若第一階段結果令人滿意，項目將會延長至包括第二階段。在進行檢討後，項目屆時將需要適當地尋求業界的贊助。

[#] These are seeds projects which have applied for funding within HK\$2 million each with duration confined to a 6-month period and would require the endorsement of ASTRI's CEO only. The industry contribution requirement is not imposed on seed projects.

這些種子項目的撥款要求在二百萬港元之內，限於六個月內完成，並只需獲得應科院行政總裁的批准便可進行。業界贊助的要求並不適用於這些種子項目。

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17.	Digital Multimedia Broadcast Terrestrial (DMB-T) Television RF Tuner Development # 地面數字多媒體廣播(DMB-T)電視射頻接收開發 #	6	1,987,000	0%	- ASTRI 應科院	Nil
18.	Embedded Peer-to-Peer Media Distribution Technology # 嵌入式點對點多媒體傳送技術 #	6	1,981,200	0%	- ASTRI 應科院	Nil
19.	Next Generation Anode Material for Lithium Ion Batteries (NALI) (Carbon Matrix Embedded Metal Phosphide Nano-composite) # 新一代鋰電池陽極材料(碳材包覆金屬磷化物奈米複合材料) #	6	1,878,000	0%	- ASTRI 應科院	Nil
20.	Networked TV Usability and Interoperability Technology # 網絡電視優使性和互連性技術 #	6	1,852,000	0%	- ASTRI 應科院	Nil
21.	Cost-effective Packaging Solutions for Automotive Electronics # 具經濟效益的汽車電子封裝技術 #	6	1,824,000	0%	- ASTRI 應科院	Nil
22.	Feasibility Study of New GaN Thin Film LED Technology # 氮化鎵薄膜發光二極管技術開發之可行性研究 #	6	1,805,000	0%	- ASTRI 應科院	Nil
23.	Recordable Electrical Memory / Single Address with Multiple Data Storage (REME/SAM) # 具有多重記錄狀態之一次性電子記憶器 #	6	1,880,000	0%	- ASTRI 應科院	Nil
24.	Cost Effective Fabrication for Antenna-and-RF Module (CEFA) # 高效益無線通訊模組製備 #	6	1,827,000	0%	- ASTRI 應科院	Nil
25.	Cache-Facilitated Media Delivery Technology # 緩衝貯存促進的媒體傳送技術 #	6	1,856,295	0%	- ASTRI 應科院	Nil
26.	Surface Mount RF Switches for Reconfigurable Antennas # 可重構天線用表面貼裝的射頻開關 #	6	1,794,000	0%	- ASTRI 應科院	Nil
27.	Anti-shaking Compact Camera Module for Cellular Phone Applications # 防震動手機用微型照相機模組 #	6	1,810,000	0%	- ASTRI 應科院	Nil

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<i>Contract Service 合約服務*</i>						
28.	VoIP phone feature enhancement 改善網絡電話功能顧問服務	12	273,000	100%	- ASTRI 應科院	- A private company 一家私營公司
29.	IP Set Top Box customization I 電視機頂盒顧問服務	12	234,000	100%	- ASTRI 應科院	- A private company 一家私營公司
30.	Home Media Center Product reference design 家庭媒體中心顧問服務	12	249,600	100%	- ASTRI 應科院	- A private company 一家私營公司
31.	Power IC packaging design and analysis 電源電路封裝設計及分析	2	150,000	100%	- ASTRI 應科院	- A private company 一家私營公司
32.	Wireless Video Adapter 無線視頻傳輸適配器技術	6	780,000	100%	- ASTRI 應科院	- A private company 一家私營公司
33.	Si Wafer Fabrication 製造矽晶圓服務	1	30,850	100%	- ASTRI 應科院	- A private company 一家私營公司
34.	Real Time Surveillance recorder software 實時監察系統軟件	12	20,000	100%	- ASTRI 應科院	- A private company 一家私營公司
35.	VoIP phone feature enhancement 改善網絡電話功能顧問服務	12	78,000	100%	- ASTRI 應科院	- A private company 一家私營公司
36.	VoIP phone feature enhancement 改善網絡電話功能顧問服務	12	226,000	100%	- ASTRI 應科院	- A private company 一家私營公司
37.	Real Time Surveillance recorder API customization 實時監察系統軟件顧問服務	1	50,000	100%	- ASTRI 應科院	- A private company 一家私營公司
38.	Ceramic submount fabrication with TiW/Au coating 製造配有 TiW/Au 塗層的陶瓷	6	37,200	100%	- ASTRI 應科院	- A private company 一家私營公司
39.	Assembly of VCSEL chips on TO-headers VCSEL 芯片組合	4	51,600	100%	- ASTRI 應科院	- A private company 一家私營公司

* Contract service projects are not required to be endorsed by the Commissioner for Innovation and Technology (CIT).
合約服務項目並不需由創新科技署署長批核。

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40.	Assembly Design Rules 組合設計標準顧問服務	4	93,360	100%	- ASTRI 應科院	- A private company 一家私營公司
41.	Camera with Auto focus capability 相機自動對焦技術	24	570,000	100%	- ASTRI 應科院	- A private company 一家私營公司
42.	VoIP phone feature enhancement 加強 VoIP 電話功能	12	33,800	100%	- ASTRI 應科院	- A private company 一家私營公司
43.	Intergration of DRM into HMC platform 加入數位版權管理於 HMC 平台顧問服務	2	156,000	100%	- ASTRI 應科院	- A private company 一家私營公司
44.	Smart antenna and miniature antenna design 智慧形天線及微形天線設計顧問服務	6	29,376	100%	- ASTRI 應科院	- A private company 一家私營公司
45.	API development for Home Media Centre platform 家庭媒體中心平台之應用程序接口	12	50,000	100%	- ASTRI 應科院	- A private company 一家私營公司
46.	WiFi phone features enhancement 加強 WiFi 電話功能	12	80,000	100%	- ASTRI 應科院	- A private company 一家私營公司
47.	Chinese AVS 1.0 audio and video decoder solution 中國式 AVS 1.0 影音解碼解決方案的顧問服務	13	780,000	100%	- ASTRI 應科院	- A private company 一家私營公司
48.	SIP phone features enhancement 加強以 SIP 協議為基礎之電話功能	12	156,000	100%	- ASTRI 應科院	- A private company 一家私營公司
49.	Bridge solution between UWB MII and 1394 interface with UWB module UWB MII 與 1394 介面至 UWB 模件之接連技術	6	750,000	100%	- ASTRI 應科院	- A private company 一家私營公司
50.	Active-dynamic LED backlight and real time control module 主動動態 LED 背光及實時控制模件技術	16	880,000	100%	- ASTRI 應科院	- A private company 一家私營公司
51.	Package design for optical transmitter & receiver and DGP die 光學發送器及接收器封裝設計技術	2	175,500	100%	- ASTRI 應科院	- A private company 一家私營公司

Percentage of Operating Expenditure over Total Expenditure of R&D Centres #
研發中心運作開支佔整體開支百分比 #

	Operating expenditure for FY2006/07 2006/07 年度 運作開支	R&D expenditure for FY2006/07 * 2006/07 年度 研發開支	Total expenditure for FY2006/07 2006/07 年度 總開支	Percentage of operating expenditure over total expenditure 運作開支佔總開支 百分比
Nano and Advanced Materials Institute Limited 納米及先進材料研發院有限公司	\$10.4 m	\$0 m [@]	\$10.4 m	100%
The Hong Kong Research Institute of Textiles and Apparel Limited 香港紡織及成衣研發中心	\$5.7 m	\$0 m [@]	\$5.7 m	100%
Hong Kong R&D Centre for Logistics and Supply Chain Management Enabling Technologies Limited 香港物流及供應鏈管理應用技術研發中心有限公司	\$8.0 m	\$0 m [@]	\$8.0 m	100%
Automotive Parts and Accessory Systems R&D Centre Limited 汽車零部件研究及發展中心有限公司	\$12.7 m	\$0 m [@]	\$12.7 m	100%
The Hong Kong Applied Science and Technology Research Institute Company Limited (ASTRI) 香港應用科技研究院有限公司(應科院)	\$105.6 m	\$141.6 m	\$247.2 m	43%

Figures are on individual Centre basis. Further breakdown of the administrative cost on individual R&D project basis is not practical.
 有關數字以個別研發中心為單位而編製，以個別研發項目進一步細分有關行政成本的數字並不可行。

* The figures refer to the actual expenditure incurred for the R&D projects in FY2006/07.
 有關數字為2006/07年度研發項目的實際開支。

@ The R&D Centres (except ASTRI) were formally launched in April 2006. The Centres were since engaged in finding accommodation, fitting out, recruiting staff, and at the same time refining their technology roadmaps, soliciting views and project proposals, project vetting until the first batch of projects were submitted to their respective Technology Committees and Boards for approval in late 2006/early 2007, after which there was lead time for negotiating agreement terms before a project could formally commence. Therefore, except for the case of ASTRI, there has been no R&D expenditure for 2006/07 (i.e. the first year of operation) for all the R&D Centres.
 各研發中心(應科院除外)於二零零六年四月正式成立後，隨即忙於選擇和設置辦公室及招聘員工，同時亦須完善其科技發展大綱、徵求意見及項目建議書，以及進行項目評審。各中心的首批項目建議書於二零零六年年底／二零零七年年初提交給其各自的科技委員會和董事局批核。而之後亦需一段時間商討協議條款，項目才能正式開展。因此，除了應科院外，所有研發中心於二零零六／零七年度(即運作的首年)均沒有研發開支。