

The logo for ASTRI, featuring the word "ASTRI" in a bold, blue, sans-serif font. A small blue circle is positioned at the top of the letter 'A'. The background of the entire page is a white-to-light-blue gradient with a network of thin, grey lines connecting various points, creating a geometric, web-like pattern.

ASTRI

LEADING INNOVATION • BREAKING BOUNDARIES

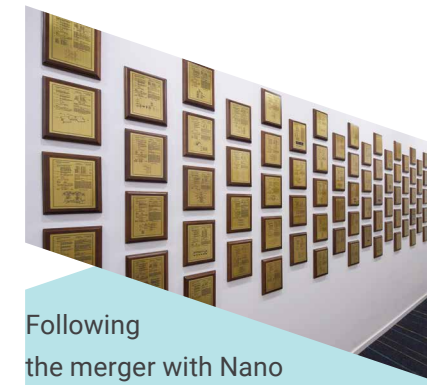
引領創新 突破界限

ASTRI

Hong Kong Applied Science and
Technology Research Institute
香港應用科技研究院

Hong Kong Applied Science and Technology Research Institute (ASTRI) is founded in 2000 by the Government of the Hong Kong Special Administrative Region. As Hong Kong's largest government-funded research and development centre, ASTRI is a key force and super connector driving innovation and technology advancement in Hong Kong, the Greater Bay Area, and the global innovation ecosystem.

香港應用科技研究院（應科院）於2000年由香港特別行政區政府成立。作為香港最大的政府資助研發中心，應科院不僅是推動科技進步的重要力量，更擔當促進香港、大灣區以至全球創新生態圈發展的「超級聯繫人」角色。



Following the merger with Nano and Advanced Materials Institute (NAMI), ASTRI's cumulative patent portfolio has grown to over 1,500, with more than 2,200 technologies successfully transferred to industry.

與納米及先進材料研發院(NAMI)合併後，應科院取得的專利累計增至超過1,500項，並已成功向業界轉移逾2,200項技術。

Bringing together hundreds of R&D professionals with Doctoral or Master's Degrees
匯聚數百名具博士或碩士學位的科研專才



Technology Transfer 技術轉移

ASTRI boasts an extensive collection of market-ready and commercially viable technologies. ASTRI has been transferring technology to industry through R&D contracts, licensing, and other collaborative models.

應科院致力為客戶開創新科技，並把技術商品化落地應用，取得豐碩成果。我們透過研發合約、授權及其他合作模式，把技術轉移給業界。



Our **Vision** 我們的願景

Enhance Hong Kong's competitiveness in the technology-based industries through applied research.
透過應用科技研究，協助發展以科技為基礎的產業，藉此提升香港的競爭力。

Our **Mission** 我們的使命

- Conduct relevant and high-quality research and development for transfer to industry;
進行相關及高質素的科技研發工作，並把科研成果轉移給不同產業應用；
- Encourage collaboration among government, industry, academia and research;
鼓勵「政產學研」合作；
- Foster wider adoption of innovation and technology (I&T);
推動更廣泛應用創新科技；
- Nurture Hong Kong's I&T talents; and
培育香港創科人才；及
- Promote Hong Kong's I&T advantages.
推廣香港創科優勢。

What We Offer 服務範圍

One of ASTRI's objectives is to empower industries to capitalise on the burgeoning technology market and boost their competitive edge. We are committed to sharing our expertise and R&D achievements with clients and partners, for the benefit of the entire tech industry.
應科院的主要目標之一是協助產業在蓬勃的科技市場中抓緊機遇，增強產業的競爭優勢。我們樂意與客戶和合作夥伴分享我們的專業技術以及研發成果，讓整個科技產業界受惠。

7 Core Areas 核心科研

ASTRI's R&D efforts are concentrated in seven key areas:

- Smart City
- FinTech
- Digital Health and Life Sciences
- New Industrialisation and Intelligent Manufacturing
- Application-Specific Integrated Circuits (ASIC) and Advanced Electronics
- New Energy and Energy Storage
- Green and ESG Technologies

應科院技術研發應用聚焦七大領域：

- 智慧城市
- 金融科技
- 數碼健康及生命科學
- 新型工業化及智能製造
- 專用集成電路及先進電子
- 新能源與儲能
- 綠色與永續發展科技

9 Technology Divisions 技術部門

ASTRI conducts high-quality R&D for technological applications designed to meet industry needs. Our core R&D competence across various areas are organised under nine technology divisions:

應科院研發適合應用於業界的高質素技術項目。我們的主要科技研發領域可歸納於九個技術部門：





Smart City

智慧城市

As Hong Kong advances towards becoming a leading smart city, ASTRI develops cutting-edge technologies that enhance urban infrastructure, improve operational efficiency and elevate quality of life for residents. Our innovations integrate next-generation communications, artificial intelligence, IoT sensing and advanced materials to create a more connected, efficient and livable urban environment.

隨着香港邁向成為領先的智慧城市，應科院致力開發尖端技術，以提升城市基建、改善運營效率，並提升市民的生活質素。我們的創新技術融合了新一代通訊技術、人工智能、物聯網感測及先進材料，有助打造一個更互聯、高效及宜居的城市環境。



FinTech

金融科技

As Hong Kong strengthens its position as an international financial hub, ASTRI develops advanced FinTech solutions that enhance security, efficiency and customer experience across the financial services sector. Our innovations leverage artificial intelligence, federated learning and blockchain technology to help banks, insurers and financial service providers deliver faster, more reliable and secure services.

香港作為國際金融中心的地位日漸穩固，應科院致力開發先進的金融科技 (FinTech) 解決方案，提升金融服務行業的安全、效率及客戶體驗。我們的創新技術善用人工智能科技、聯盟式學習及區塊鏈技術，協助銀行、保險公司及金融服務提供商提供更快速、更可靠且更安全的服務。

Digital Health and Life Sciences 數碼健康與生命科學



New Industrialisation and Intelligent Manufacturing 新型工業化及智能製造



ASTRI develops innovative Digital Health and Life Sciences that enhance healthcare delivery, improve patient outcomes and support Hong Kong's ageing population. Our solutions integrate artificial intelligence, IoT sensing, advanced materials and life sciences to enable preventative health monitoring, precise medical diagnosis and personalised care across clinical and community settings.

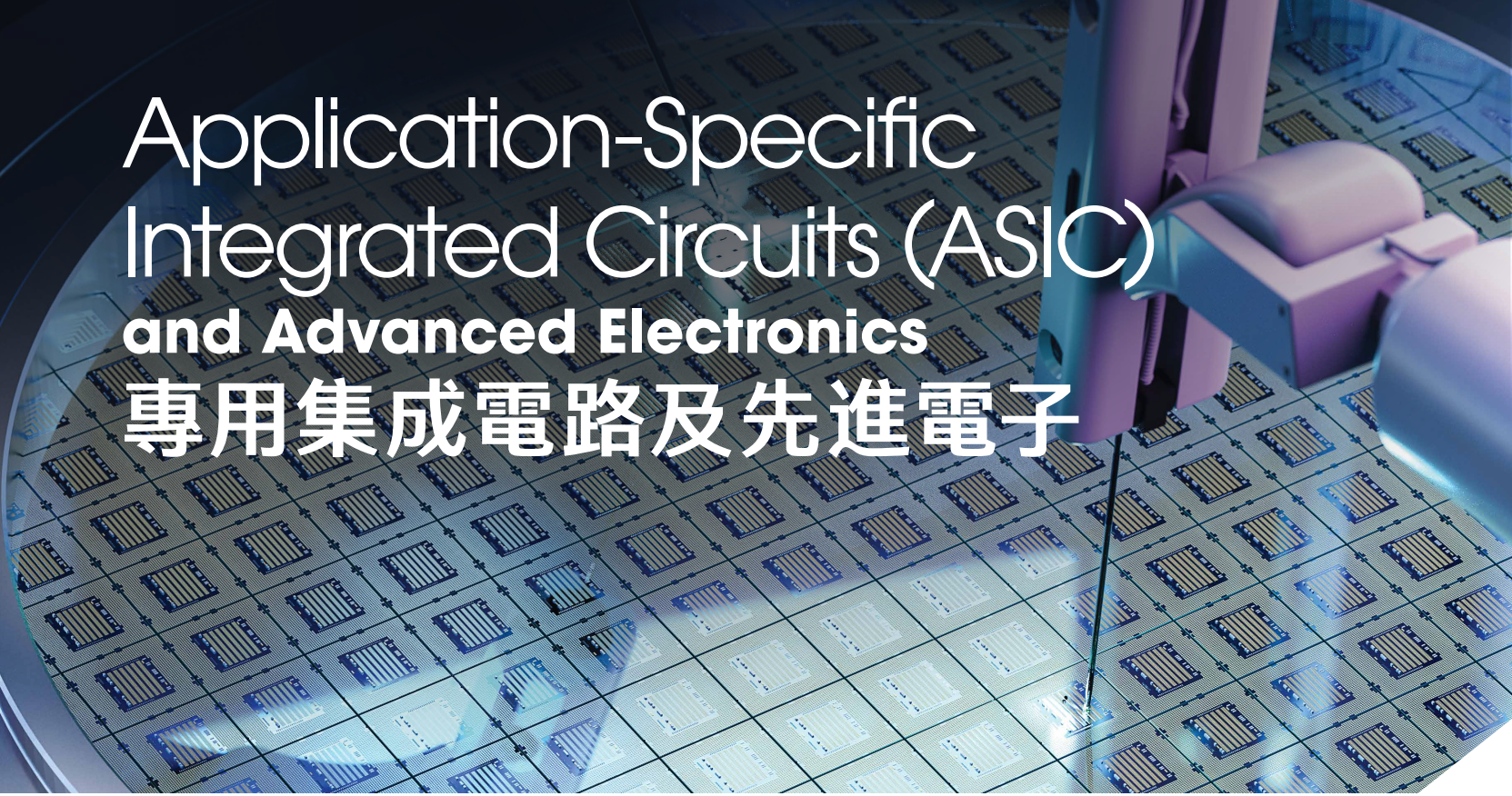
應科院開發創新的數碼健康及生命科學，有助提升醫療服務效率、改善患者治療效果，以應對香港老化人口需求。我們的解決方案融合了人工智能、物聯網感測、先進材料及生命科學，實現預防性健康監測、精準醫學診斷，並在臨床和社區環境中提供個人化照護。

ASTRI develops advanced technologies for New Industrialisation and Intelligent Manufacturing that enhance productivity, reliability and sustainability across production environments. Our solutions integrate artificial intelligence, robotics, next-generation connectivity and advanced materials to transform traditional manufacturing into intelligent, interconnected operations that meet the demands of Hong Kong's evolving industrial landscape.

應科院開發新型工業化及智能製造的先進技術，以提升智慧工廠的生產力、可靠性和可持續性。我們的解決方案融合了人工智能、機器人技術、新一代通訊技術及先進材料，將傳統製造業轉型為智能互聯的運營模式，以滿足香港不斷演變的工業需求。

Application-Specific Integrated Circuits (ASIC) and Advanced Electronics

專用集成電路及先進電子



New Energy and Energy Storage

新能源與儲能



As the Hong Kong Branch of the National Engineering Research Center for Application Specific Integrated Circuit System (CNERC), ASTRI drives innovation in microelectronics and integrated circuits, developing cutting-edge ASIC solutions and advanced electronics that serve diverse industry sectors. Our expertise spans intelligent manufacturing, automotive technologies, artificial intelligence and next-generation electronics packaging.

作為國家專用集成電路系統工程技術研究中心香港分中心，應科院在微電子及集成電路領域推動創新，開發尖端的專用集成電路（ASIC）解決方案及先進電子技術，服務不同行業。應科院的專業技術應用範疇涵蓋智能製造、汽車技術、人工智能及新一代電子封裝等。



The Hong Kong Branch of the National Engineering Research Center for Application Specific Integrated Circuit System operates within the infrastructure of ASTRI. 應科院是國家專用集成電路系統工程技術研究中心香港分中心的依托單位。

As global demand for clean, reliable and sustainable energy solutions continues to rise, Hong Kong is positioning itself at the forefront of next-generation energy innovation. ASTRI develops advanced energy technologies spanning energy efficiency, energy absorption and energy generation that transform the way power is produced, stored and utilised. By commercialising innovative technologies and products, and enabling their adoption across industries, ASTRI aims to unlock a future where high-performance, safe and sustainable energy infrastructure drives economic growth while enhancing environmental resilience.

隨着全球對潔淨、可靠且永續的能源解決方案需求持續上升，香港也正積極佈局，確立在新一代能源創新領域的領先地位。應科院開發先進的能源技術，涵蓋能源效率、能源吸收及能源生成，徹底改變電力的生產、儲存和使用方式。通過將創新技術和產品商業化，並促進其在各行各業的應用，應科院旨在開創一個由高性能、安全且永續的能源系統驅動的未來，平衡經濟發展與環境韌性。

Green and ESG Technologies 綠色與永續發展科技

Driving Innovation Through Advanced Infrastructure 以先進設備推動創新

As the world accelerates towards a low-carbon future, Hong Kong is advancing sustainable innovation through Green and ESG technologies. ASTRI integrates environmentally responsible materials, circular economy solutions and intelligent analytics to reduce carbon emissions and promote sustainability. These efforts address urgent global challenges whilst building the foundation for a resilient, environmentally conscious society that supports Hong Kong's net-zero ambitions.

隨着全球加速邁向低碳未來，香港也致力透過綠色與ESG（環境、社會和公司治理）科技來推動永續創新。應科院整合環保物料、循環經濟解決方案和智慧分析技術，減少碳排放並促進永續發展。這些努力不僅回應了迫切的全球性挑戰，也為建構一個具韌性和環保意識的社會奠定基礎，支持香港實現淨零排放的目標。



Our R&D facilities are the foundation of cutting-edge research and innovation, offering advanced infrastructure to support development of key technological domains such as information and communication technologies, nanotechnology, and advanced materials.

Equipped with state-of-the-art instrumentation and backed by deep technical expertise, our R&D facilities play a vital and integral role in enabling multi-disciplinary research excellence. They create a dynamic environment where fundamental discovery seamlessly bridges with practical application, fostering breakthrough innovations that address real-world challenges.

Beyond advancing scientific knowledge, our facilities contribute significantly to Hong Kong's strategic positioning as an international innovation and technology hub, strengthening the city's competitive edge in the global knowledge economy.

我們的研發設施是尖端研究與創新的重要基石，藉先進的基礎建設，支援資訊與通訊技術、納米技術及先進材料等關鍵技術的發展。

我們的研發設施配備最先進的儀器設備，加上科研人員的技術專長，在推動跨學科研究卓越發展方面扮演着至關重要的角色。設施營造了一個充滿活力的環境，讓基礎研發與實際應用無縫接軌，促進突破性創新以應對現實世界的挑戰。

除了推進科學知識發展，我們的設施亦為香港建立國際創新科技中心的戰略定位作出重大貢獻，鞏固本港在全球知識型經濟中的競爭優勢。

Leading Innovations • Breaking Boundaries 引領創新 突破界限

ASTRI, Hong Kong's leading government-funded research and development centre, boasts a world-class R&D team and is committed to advancing the entire scientific research ecosystem. By fostering connections among key stakeholders, ASTRI plays a vital role in bridging upstream research with downstream industrial market development. Through strategic collaboration between government, industry, academia, research institutions and investors, ASTRI is instrumental in establishing Hong Kong as a leading international innovation and technology hub. 應科院是香港最具規模的政府資助研發中心，不僅擁有龐大的研發團隊，更積極完善整個科研生態圈的發展，聯繫不同的持份者，既促進上中游研究，同時亦加強下游產業市場的發展，推動更多政產學研投協作，支持香港發展成為國際創新科技中心。



Developing the **Ecosystem** with Industry Partners 與行業夥伴攜手發展生態圈



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