

# A GLOBAL INSTITUTE FOR INNOVATION AND TALENT DEVELOPMENT



新加坡国立大学重庆研究院  
NUS (Chongqing) Research Institute



新加坡国立大学重庆研究院  
NUS (Chongqing) Research Institute

# CONTENTS

## 目录

### 院长致辞

DIRECTOR'S MESSAGE

01

### 发展历程

ESTABLISHMENT

02

### 新国大简介

ABOUT NUS

03

### 研究院介绍

INTRODUCTION OF NUSRI-CQ

04

### 科研

RESEARCH

05

### 教育

EDUCATION

07

### 产业化

ENTERPRISE

09

### 地图

MAP

11



NUS  
National University  
of Singapore  
新加坡国立大学重庆研究院  
NUS (Chongqing) Research Institute

# DIRECTOR'S MESSAGE

## 院长致辞

新加坡国立大学重庆研究院(以下简称“研究院”)是一所产学研一体化的国际创新型研究院。研究院的建立是中新两国进一步加强互联互通的共同意愿。我院将依托新加坡国立大学(以下简称“新国大”)雄厚的科研实力和丰富的全球资源,立足重庆两江新区产业发展的需求和方向开展产学研工作。

我们希望通过努力为地方产业的转型和升级带来新的机遇,为中新两国科技、教育、产业的互联互通做出贡献。

NUS (Chongqing) Research Institute (“NUSRI-CQ”) aims to be a global institute for innovation and talent development. Situated in one of the fastest-growing cities in China, NUSRI-CQ will build on the complementary strengths of National University of Singapore (“NUS”) and Chongqing Liangjiang New Area to achieve mutually beneficial outcomes in research, education, innovation, and technology transformation.

As an important gateway for NUS in the western region of China, we strive to strengthen Sino-Singapore cooperation.

许国勤 教授  
新国大重庆研究院 院长  
Professor Xu Guo Qin  
NUSRI-CQ Director

# ESTABLISHMENT

## 发展历程

### 2018

2018年9月20日,重庆两江新区与新国大签署《重庆两江新区管理委员会与新加坡国立大学关于共同建设新加坡国立大学(重庆)研究院的战略框架协议》。

NUS and Chongqing Liangjiang New Area Administrative Committee (“LJNAAC”) signed a strategic framework agreement to jointly establish a research institute in Chongqing on September 20, 2018.

### 2019

2019年9月11日,重庆两江新区与新国大签署共建重庆研究院的实施协议。

NUS and LJNAAC signed a detailed implementation agreement on the joint establishment of NUSRI-CQ on September 11, 2019.

### 2020

2020年4月7日,新国大重庆研究院完成事业单位法人注册。

NUSRI-CQ was registered as a non-profit organization with an independent legal entity under the auspices of LJNAAC on April 7, 2020.

# INTRODUCTION OF NUSRI-CQ

## 研究院简介

研究院是由新国大和重庆两江新区合作开设的研究院,性质为事业单位独立法人。

NUSRI-CQ, jointly established by NUS and LJNAAC, is a non-profit organization with an independent legal identity under the auspices of LJNAAC.

作为新国大在中国西部唯一的对外合作窗口,研究院将结合中新互联互通项目及两江新区战略性新兴产业定位和发展方向,充分依托新国大雄厚的科研实力和全球资源,围绕先进制造与材料、智能传感与人工智能、现代物流、金融与金融风险管理等重点科研领域,开设高端研发平台、高新产业孵化基地和教育培训中心,致力于打造具有全国影响力的产学研一体化的国际创新型研究院。

Leveraging on NUS' excellent research expertise and global resources in a broad spectrum of areas, NUSRI-CQ, the only physical presence of NUS in the western region of China, established R&D platforms in advanced manufacturing and materials, intelligent sensing and AI, modern logistics, as well as finance and financial risk management. NUSRI-CQ also built a deep-tech enterprise platform for technology transfer and commercialization; and an education centre for talents' cultivation and academic exchanges. The development of NUSRI-CQ will be aligned with the theme and directions set for China-Singapore (Chongqing) Demonstration Initiative on Strategic Connectivity by the Singapore and China governments as well as the focuses of Chongqing Liangjiang New Area.



## ABOUT NUS

### 新国大简介

新国大始建于1905年,建校以来因其在教育、科研和创新创业方面取得的成绩受到了国际上的广泛认可。

作为亚洲领先学府,新国大立志启智润心,引领创新,为新加坡、亚洲乃至世界,创造更美好的未来。

Established in 1905, today NUS is widely recognized for its excellence in education, research and entrepreneurship.

As a leading global university in Asia, NUS strives to inspire and innovate, shaping a better future for Singapore, Asia and the world.



成为卓越的国际创新型研究院

A global institute for innovation and talent development



致力于通过教育的引领、原创性的科学研究和技术转移转化,培养和集聚高端人才,推动地方的科技进步和产业发展

Through research, technology transformation and talent development, NUSRI-CQ aims to make great contributions to the R&D industries and communities of Chongqing and Western China.



# RESEARCH

## 科研

研究院在4个领域建立了研究中心:先进制造与材料、智能传感与人工智能、现代物流以及金融与金融风险管理。研究院从新国大引进了27位教授、副教授及助理教授作为学术带头人,带领本地科研团队积极推进科学研究、项目合作以及博士生培养计划。

NUSRI-CQ set up four centres in (1) Advanced Manufacturing and Materials; (2) Intelligent Sensing and AI; (3) Modern Logistics; and (4) Finance and Financial Risk Management. A total of 27 internationally well-recognized NUS academic staff had been partially seconded to NUSRI-CQ, serving as the Principal Investigators (PIs) to lead the research, technology transformation and graduate education.

研发中心	研究方向
先进制造与材料	<ul style="list-style-type: none"> <li>高附加值产品全生命周期(设计制造回收)集成化数字主线平台</li> <li>混合加工工艺CAD/CAM/数字孪生多功能工具集成平台</li> <li>先进制造和材料合成中物理化学过程的高精度数值模拟</li> <li>基于先进制造、面向下一代固态能源系统的先进储能材料</li> </ul>
智能传感与人工智能	<ul style="list-style-type: none"> <li>基于电子自旋流的先进磁传感器</li> <li>智能的微波感知技术和高效无线输能</li> <li>嵌入式人工智能模型</li> <li>先进智能交通多模态大数据分析</li> </ul>
现代物流	<ul style="list-style-type: none"> <li>建设与提升可持续发展的电子商务供应链</li> <li>运营管理中的行为,过程与激励研究</li> <li>供应链风险分析</li> <li>智慧城市——最后一公里</li> </ul>
金融与金融风险管理	<ul style="list-style-type: none"> <li>开发可用于金融科技和监管科技的方法</li> <li>私人 and 公共组织的区块链数字化转型</li> <li>智能资产配置与投资组合管理</li> <li>大型投资组合和跨市场的风险预测</li> <li>移动支付的影响</li> </ul>

Research Centre	Research Areas
Advanced Manufacturing and Materials	<ul style="list-style-type: none"> <li>An integrated platform with multifunctional CAD/CAM/Digital-Twin tools for the hybrid manufacturing process chains</li> <li>Digital platform of integrated design, manufacturing and end-of-line for product life cycle of high-value products</li> <li>High-fidelity simulations of physical and chemical processes in advanced manufacturing and materials synthesis/processing</li> <li>Advanced structural and functional materials, and devices</li> </ul>
Intelligent Sensing and AI	<ul style="list-style-type: none"> <li>Advanced spin and quantum sensing</li> <li>Advanced RF sensing</li> <li>Embedded AI for advanced visual sensing</li> <li>Advances multimodal data analytics for smart transportation</li> </ul>
Modern Logistics	<ul style="list-style-type: none"> <li>Strategic Analysis for Building and Improving E-Commerce Supply Chain and Sustainability</li> <li>Human Behavior, incentive, and Process in Operations</li> <li>Supply Chain Risk Analytics</li> <li>Last Mile Operations in Smart City</li> </ul>
Finance and Financial Risk Management	<ul style="list-style-type: none"> <li>Methods and Applications in Fintech and RegTech</li> <li>The digital transformation of private and public organizations</li> <li>Robo-advising, asset allocation and portfolio risk management</li> <li>Modelling of risk for large portfolios</li> <li>The Impact of Mobile Payment Technology</li> </ul>

## 博士生培养计划

## NUSRI-CQ-affiliated PhD Program

研究院设立专项奖学金,为重庆地区培养博士生。博士生培养方向紧扣重庆尤其是重庆两江新区的产业及研发高端人才需求缺口。

NUSRI-CQ offers Scholarships to outstanding candidates for PhD studies in NUS. The main objective of this program is to train R&D talents and serve the R&D industries in Liangjiang New Area and other areas of Chongqing.



<http://www.nusricq.cn/phdprogramme/65.html>





## EDUCATION

### 教育

为满足“一带一路”、“中新互联互通”以及“成渝双城经济圈”等众多国家战略所带来的高端人才需求，研究院将定期举办各类高起点、高层次教育项目，包括研究生培养项目、国际青年交流培养项目、高端管理人员培训项目等，积极打造联通重庆、新加坡以及世界的国际化、创新型人才培养基地。

To implement the initiatives of "One Belt and One Road", "China-Singapore Strategic Connectivity" and "Chengdu-Chongqing Twin City Economic Circle", it is critical to develop multi-cultural talents with global experience and mind-set. NUSRI-CQ will offer a variety of programs, including PhD and MSc by research, executive training and student exchanges in collaboration with local institutions. NUSRI-CQ intends to serve as the talent development platform, playing important roles in connecting Chongqing with Singapore, ASEAN and beyond.



### 来华经济文化体验

### China Immersion Program for Overseas Students

研究院将组织新国大的优秀学生来渝进行经济、文化等方面的短期体验。项目通过安排学生与地方政府官员对话、到当地企业参访、与国内高校师生交流、与在华新国大校友座谈等丰富的形式，为国际学生提供深入了解重庆及中国西部城市的平台，也为本地高校学生开拓国际视野，感受多元文化创造机会。

NUSRI-CQ offers China Immersion Program for selected NUS undergraduate and graduate students. The program will be delivered through arranging dialogues between students and local government officials, visiting local enterprises, interacting with lecturers and students of domestic universities, and view exchanges with NUS alumni working in Western China. We hope the program is able to provide students from Singapore and other ASEAN countries with a platform to gain an in-depth understanding of Chongqing and western Chinese cities. It opens up the international perspectives and creates opportunities for local university students to experience multiculturalism.

### 高端管理人员培训

### Executive Education Program

研究院将整合优质师资力量，结合地方政府需求，向地方行政管理团队分享新加坡在社会和经济发展等方面所取得的经验及成果，进一步提升重庆及西部地区的执政能力及管理水平。研究院将针对西部地区企业高管提供定制化培训课程，帮助其更好地提升专业能力和领导能力，以满足地方快速发展的需要。

Singapore is known for adapting and implementing most advanced skills and practices in social, educational and industrial management. To share Singapore experience and knowledge, NUSRI-CQ mounts training programs on leadership, public policies, innovation and entrepreneurship, social and business management, meeting the rapidly growing demand for professional advancement arising from Chongqing and other major cities in Western China.



# ENTERPRISE

## 产业化

研究院引进了BLOCK71全球创新创业生态体系,协助以新加坡为主的双边国际科技成果有效转化,推动以重庆为中心的中西部地区与新加坡科技产业互联互通的双向交流,致力于打造一流的国际科技产业化平台和高标准的产业孵化中心。

BLOCK71 Chongqing, an NUS technology transfer and commercialization platform in Chongqing, aims to develop an ecosystem for international technology transfer and commercialization in Chongqing. It also serves as an incubator for deep-tech startups in Liangjiang New Area. BLOCK71 Chongqing promotes the two-way technology exchange between China and Singapore, assisting NUS and Singapore startups to establish their presence in Chongqing and Western China, and providing a pathway for Chongqing enterprises to explore the ASEAN market.



### 产业孵化中心

### BLOCK71 Chongqing

#### ● 可持续创业生态 Innovation and Entrepreneurship Ecosystem

BLOCK71 Chongqing旨在引进以新加坡为主的全球科技研发型企业入驻,在西部地区形成一个富有活力的可持续创业生态,推动当地科技产业领域整体开发和建设。

BLOCK71 Chongqing is a technology ecosystem builder and global connector which catalyzes and aggregates the start-up community, as well as spearheads new initiatives and provides mentorship and growth opportunities in local and global markets.



#### ● 全方位创业孵化 One-stop Hub for Incubation

专业化、标准化、国际化的孵化团队,为企业/团队提供国际资源、技术对接、专家指导、投资融资等全面支持,为科技型初创企业提供覆盖全创业生命周期的高附加值孵化服务。

We provide scientific support, research and technology transfer services, industrial agreement and partnership development through our Business Incubator and Technology Transfer Centre.

### 国际技术产业化平台

### International Technology Commercialization Platform

#### ● 国际技术转移转化服务

#### Service for International Technology Transfer and Commercialization

围绕先进制造与材料、智能传感与人工智能、现代物流、金融与金融风险管理四大科研领域,建立多元化产学研合作机制,引导国际高精尖技术落地,提供国际技术产业化技术转移服务,促进本地企业的技术创新和发展。

BLOCK71 Chongqing aims to attract international technologies to land in Chongqing. It promotes the integration of international technologies and local companies with the focuses on advanced manufacturing and materials, intelligent sensing and AI, modern logistics, as well as finance and financial risk management, supporting the innovation and technological upgrading of local R&D industries.



#### ● 知识产权综合运营服务

#### Intellectual Property Services

以重庆为中心,辐射周边高校、科研院所、高新科技企业,推广国际知识产权运营模式,提供专利管理、信息分析、价值分析、产业化评估等导航式综合运营服务,打造企业、孵化中心、科研平台穿插交融的创新合作示范载体。

Centered in Chongqing and extending to universities, research institutes, and high-tech enterprises in surrounding areas, we provide services for international IP management, analysis, and evaluation, and build an integrated platform for technology transfer, commercialization and incubation.



# MAP 地图



📍 重庆两江新区卉竹路2号重庆互联网产业园二期4号楼  
Building 4, Chongqing Internet Industrial Park Phase II,  
Chongqing Liang Jiang New Area, Chongqing, China, 401120

☎ 023-67392300

🌐 [www.nusricq.cn](http://www.nusricq.cn)



微信公众号