				NI 1			
N	ature of Employer 单位性质	Type of Employer 单位类型	Location of Employer 单位所在区县	Number of Vacant Jobs 拟招收 总人数			
]	Public institution 事业单位	Municipal-level workstation (under application for the national-level workstation) 市级工作站(国家站申请中)	Yubei District 渝北区	21			
Recruiting Brochure							
		招收简章					
I —	Introduction to Founders 设站单位简介	National University of Singapore (Chongqing) Research Institute ('NUSRI Chongqing'), jointly established by the National University of Singapore ('NUS') and the Chongqing Liangjiang New Area Administrative Committee ('LJNAAC'), is an independently operated overseas research institute of NUS located in Chongqing and hosted by the LJNAAC. Leveraging on NUS' excellent research expertise and global resources in a broad spectrum of areas, NUSRI Chongqing, the only operation centre of NUS in the western region of China, will set up high-end research and development platforms in the key scientific research areas of advanced manufacturing and materials, intelligent sensing and AI, modern logistics, as well as finance and risk management. NUSRI Chongqing will also build a high-tech industry incubation base for technology transfer, entrepreneurship and innovation-related activities; and an education and training centre for talents' cultivation and academic exchanges. These activities will be carried out in line 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 strategic industrial development positioning of Liangjiang New Area.

NUSRI Chongqing, an integrated platform of research, enterprise and education, is committed to grow to be a leading international innovative research institute in China of both significant scientific impact and great social value.

新加坡国立大学重庆研究院(以下简称"新国大重庆研究院")是由新加坡国立大学(以下简称"新国大")和重庆两江新区合作开设并自主运营的研究院,性质为事业单位独立法人,举办单位是重庆市两江新区。

新国大重庆研究院将结合中新互联互通项目及两江新 区十大战略性新兴产业定位及发展方向,充分依托母校雄 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(智慧)物流、金融与金融风险管理 等重点科研发展领域,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。

新加坡国立大学简介

新国大始建于 1905 年,是世界顶尖学府。它是环太平洋大学联盟、亚洲大学联盟、亚太国际教育协会、国际研究型大学联盟、Universitas 21 等著名高校联盟的成员。其在工程、生命科学及生物医学、社会科学及自然科学等领域的研究享有世界盛名。新国大在最新的 2021 年 QS 世界大学排名中,位列亚洲第一,全球第十一。

Introduction to II Postdoctoral 二 Workstation 博士后站介绍

NUSRI Chongqing was approved to establish a postdoctoral scientific research workstation in 2020. Since then, the postdoctoral fellows at our workstation have been successively selected into such postdoctoral projects as the Postdoctoral Innovative Talents Support Program, the International Postdoctoral Exchange Fellowship Program, and the Special Funding for Postdoctoral Research Projects. Thus, they have been given the opportunity to conduct research and

innovations on high-performance all-solid-state batteries, mechanisms of hydrogen ignition, combustion and explosion, basic research on hydrogen explosion suppression by fine water mist, preparation of emerging MXene materials and their application in energy storage, oxide spintronics, and other aspects, and have made some achievements and breakthroughs.

研究院于2020年获批设立博士后科研工作站以来,我院在站博士后先后入选博新计划、国际交流计划、研究项目特别资助等博士后项目,进而在高性能全固态电池、氢气着火燃烧和爆炸的机理研究、细水雾抑制氢气爆轰的基础研究、新颖 Mxene 的制备及其在能源存储方面的研究、氧化物自旋电子学等方面进行科研探索和创新,并取得了一定的成果和突破。

We strive to build a high-level scientific research talent team that enjoys a global outlook and international strength. If you are a researcher with a doctoral degree, we sincerely welcome you to join us from all over the world!

我院致力于组建一支具有国际化视野和水平的高层次 科研人才团队,现诚邀海内外获得博士学位的研究人员加入!

Postdoc Recruitment Requirements

博士后选聘需求

	Nu			
	mb		Remunera	
	er		tion and	Requirements
	of	Majors Involved	Benefits	for
Name of Project/Position	Peo	所需专业方向	薪资福利	博士生源单
项目名称/招聘岗位	ple	(First-level	(10,000	位
· · · · · · · · · · · · · · · · · · ·	需	Disciplines)	yuan/year	Doctors
	求	(一级学科))	等要求
	in		(万元/	人
	Nee		年)	
	d			

	人			
	数			
For the research fellow				
of the Center for				
Advanced				
Manufacturing and				
Materials, the research				
directions are as follows:				
先进制造与材料研发中				
心 副研究员,方向如				
下:				
① Flame combustion				The applicants
synthesis of		I. Engineering		must come
nanomaterials		一、工学:		from
①纳米材料的火焰燃烧		(1) Materials Science		universities
合成		and Engineering		included in the
② Nanostructured				"Double
catalytic materials,		(1) 材料科学与工程 	260,000-5	
energy materials, and		(2) Chemical	20,000	First-Class"
catalysis for sustainable	3	Engineering and	yuan/year	Initiative of
energy		Technology	26-52 万	China, or in
②纳米催化材料、能源		(2) 化学工程与技术	元/年	the list of QS
材料和可持续能源催化		II. Science		Top 100
③ Energy storage		二、理学		universities
materials				毕业于国内
③储能材料		(1) Chemistry		"双一流"高校
4 Solid-state batteries		(1) 化学		或QS排名前
④固态电池				3 Q5 狮石丽 100 高校
5 Development of				100 同仪
AI-based predictive				
analytics algorithms for				
the physical-chemical				
processes during				
material manufacturing				
(first-principle				
calculation, energy band				
calculation, molecular				
dynamics simulation,				

and catalytic mechanism) ⑤材料制造中物理化学过程的人工智能预测算法发展(第一性原理数值计算、能带计算、分子动力学模拟以及催化机理) For the research fellow of the Center for				
Manufacturing and Materials, the research directions are as follows: 先进制造与材料研发中心副研究员,方向如下: ① Thermal management of battery module in electric vehicles ① 电动车电池模块的热管理 ② Robot-assisted laser cladding ② 机器人辅助激光熔覆 ③ Digital twin for laser cladding process simulation and online monitoring ③激光熔覆过程仿真及在线监控的数字孪生 ④ 3D printing technologies for metal and non-metal implants ④金属和非金属的可植入人体3D打印技术 ⑤ On-line monitoring technology of the	3	Engineering 工学 (1) Mechanical Design and Manufacturing (1) 机械设计与制造 (2) Automation (2) 自动化 (3) Control Science and Technology (3) 控制科学与技术	260,000-5 20,000 yuan/year 26-52 万 元/年	The applicants must come from universities included in the "Double First-Class" Initiative of China, or in the list of QS Top 100 universities 毕业于国内 "双一流"高校 或 QS 排名前 100 高校

争 ⑥ Incentives for innovation and process design ⑥ 创新的激励与过程设计 ⑦ Blockchain and federated learning ⑦ 区块链和联邦学习 Optimization of supply chains and production systems 供应链及生产系统优化 ⑧ Data-driven supply chain optimization ⑧ 数据驱动的供应链优化 ⑨ Last-mile delivery during the smart city operations ⑨ 智慧城市运营中的				
"最后一公里"交付 For the research fellow of the Center for Finance and Financial Risk Management, the research directions are as follows: 金融与金融风险管理研发中心 副研究员,方向如下: ① Dynamic time series prediction methods and models ①动态时间序列预测方法和模型	5	I. Applied Economics 一、应用经济学 II. Science (Mathematics/Statistic s) 二、理学(数学/统计 学) III. Management Science and Engineering 三、管理科学与工程	260,000-5 20,000 yuan/year 26-52 万 元/年	The applicants must come from universities included in the "Double First-Class" Initiative of China, or in the list of QS Top 100 universities 毕业于国内

② High-dimensional	"双一流"高校
data modeling and	或QS排名前
analysis	100 高校
②高维数据建模和分析	
③ High-frequency data	
analysis and prediction	
③高频数据分析和预测	
4 Machine learning	
algorithm and neural	
network modeling	
④机器学习算法及神经	
网络建模	
⑤ Functional data	
analysis and network	
analysis	
⑤功能数据分析和网络	
分析	
6 Risk management	
⑥风险管理	
7 Pricing of financial	
derivatives	
⑦金融衍生品定价	
8 Dynamic portfolio	
selection	
⑧动态投资组合选择	
9 Cryptocurrency and	
blockchain	
⑨加密货币和区块链	