

To: All Academic Staff
 From: Research Office (RO)



国家自然科学基金委员会
 National Natural Science Foundation of China

Reminder for Academic Colleagues: For co-ordination purpose, individual Faculty/School (F/S) may have its own administrative arrangements and internal deadlines on top of those provided by the RO. Academic colleagues are expected to satisfy all requirements when preparing their applications and seeking endorsement from their respective F/S before forwarding the materials to the RO.

The National Natural Science Foundation of China (NSFC) Mathematics Tianyuan Fund and Shenzhen Science and Technology Innovation Commission (SZTIC) are now calling for applications for the following program of the “**Cross-cutting Key Special Project 2023**”. Colleagues are invited to submit applications through the HKBU Institute for Research and Continuing Education (IRACE). Details are as follows:

Research Program	<u>Maths and Intelligence+ 數學與智能+</u>
Research Areas	<ol style="list-style-type: none"> 1. A study of Large Model Mechanism Based on Random Matrix Limit Theory 基於隨機矩陣極限理論的大模型機理研究 2. Mathematical Theory and Methods of Large Model Approximation 大模型約化的數學理論與方法 3. Metadata Governance Methods and Platforms for Supporting Large Models in Medicine 支持醫學大模型的元數據治理方法與平臺 4. Research and Development and Key Technologies of Medical Image Interpretation Large Models 醫學影像判讀大模型的研發與關鍵技術 5. Mobile Computing for Efficient Training of Medical Large Models 支持醫學大模型高效訓練的移動計算 6. Research on Evaluation and Application Patterns of Medical Imaging Large Models 醫學影像大模型的評測與應用模式研究 7. Multimodal Medical Ultrasound Fundamental Large Models and Their Applications 多模態醫學超聲基礎大模型及其應用 8. AI models and Systems for Guiding Protein Design and Modification 指導蛋白質設計與改造的 AI 模型與系統 9. Artificial Intelligence-based Peptide Drug Design Macromodels 基於人工智慧的多肽藥物設計大模型 10. Theory and Method of Microgravity Brain Ultrastructure Regulation Based on Three-Compartment Modelling 基於三室建模的微重力腦超微結構調控理論與方法 11. Generalisable Diagnosis and Treatment Model and System for Multimodal Data Fusion of Intracranial Tumours 顱內腫瘤多模態數據融合的可通用診療模型及系統 12. Integrated Chinese and Western Medicine Rheumatic Disease Diagnosis and

	<p>Treatment System Based on Multi-Language Large Model Fine-Tuning 基於多語言大模型微調的中西醫結合風濕病診療系統</p> <p>13. Continuous Optimisation of Macromodels and Assisted Diagnosis and Treatment of Specialised Diseases Based on Interactive Feedback and Domain Experience 基於交互回饋和領域經驗的大模型持續優化與專病輔助診療</p> <p>14. Intelligent Diagnosis and Treatment Integrated Basic Model and System Based on Nuclear Medicine Image Analysis/Interpretation 基於核醫學影像分析/判讀的智能診療一體化基礎模型與系統</p>	
Eligibility	<p>Principal Investigators (PIs) should meet the following requirements:</p> <ul style="list-style-type: none"> - RAP or above - With experience in undertaking basic research projects 	
Funding Period	2 Years (1 January 2024 – 31 December 2025)	
Funding Amount	RMB 2-3 million	
Application Procedures	Items	Action Parties
	<p>1) Prepare and submit the application via the GRANTS System by 12 October 2023 (Thursday). Late applications will not be accepted. <i>(Kindly be reminded of safekeeping your login name and password as it may take at least 1 – 2 days to regenerate a new one.)</i></p> <p>2) Submit the following documents to your Dean/Director for endorsement: (a) Application Form printed from the System including all the attachments (one-copy, two-sided); (b) Mainland Grant Application Checklist.</p> <p>3) Submit <u>ethics/safety applications</u> to the Research Ethics Committee, if applicable: The deadline for filing an ethics/safety application via BUniPort is 5 October 2023 (Thursday). Please refer to Guidelines on Online Submission of Ethics/Safety Applications for necessary steps. <i>(Ethics/safety approval usually takes 25 working days to process.)</i></p> <p>4) Submit cooperation application to the Academic Partnership Tracking Platform, if applicable: The deadline for filing a cooperation application via the Academic Partnership Tracking Platform is 5 October 2023 (Thursday). Please refer to Guidelines on Online Submission of co-operation Applications for necessary steps. <i>(Co-operation approval usually takes 25 working days</i></p>	PIs

	to process.)	
	5) Give comments/suggestions to PIs for revision when necessary.	Deans/Director
	6) Submit the documents (in soft copy) as stated in Item 2 above to RO by 12 October 2023 (Thursday) .	
	7) Upon receiving the complete set of application documents, RO/IRACE will online submit the application to NSFC.	RO/IRACE
Register for NSFC Electronic Account	For applicants who do not have an application account of the NSFC System, please contact the IRACE at hkbuirace@hkbu.edu.hk for registration.	
Other Application Details	GRANTS Electronic System (user guide)	

For enquiries, please contact:

IRACE:

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RO Research Grants Management Team:

Name	Email	Phone
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IMPORTANT:

➤ If an applicant departs from the University during the application period, the affiliated Department is required to inform the RO about his/her departure. The RO will follow it up with the funding body accordingly.

NOTICE – Other Funding Opportunities:

The Research Office maintains a webpage on the various internal and external funding opportunities and the current calls for colleagues' information. You are encouraged to check the information at <https://research.hkbu.edu.hk/funding-opportunities> regularly.