



澳門特別行政區
Região Administrativa Especial de Macau
科學技術發展基金
Fundo para o Desenvolvimento das Ciências e da Tecnologia

Funding Scheme for Scientific Research and Innovation

Application Guidelines for Projects Type C

(2023)

According to Article IX of the Funding Scheme for Scientific Research and Innovation approved by the Chief Executive on December 1, 2022, the Administrative Committee of the Science and Technology Development Fund (hereinafter referred to as “FDCT”) has formulated the Application Guidelines for Projects Type C of this Funding Scheme.

I. Objectives

In line with the Macao SAR Government’s policies, FDCT is committed to promote the industry-university-research partnership, facilitate the production of application-based research findings, so as to improve the contribution of scientific and technological innovation to social and economic development in Macao.

II. Support Areas

The research projects shall align with the *Second Five-Year Plan for Economic and Social Development of the Macao SAR*, the *Macao SAR Government’s Policy Address for the Fiscal Year 2023*, related planning and programs of the Guangdong-Macao In-Depth Cooperation Zone in Hengqin, etc., especially the projects that can promote scientific research and industrial development in the fields such as Chinese medicine, integrated circuits, Internet of Things, artificial intelligence, new energy, advanced materials and biomedicine.

III. Application Requirements

The Application Guidelines for Projects Type C are divided into



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the “Technical Requirements Category” and “Application Development Category”, and the research projects shall cover the research contents and meet all assessment indicators in line with the corresponding guideline directions.

1. “Technical Requirements Category”

1.1 It is divided into two fields: “Traditional Chinese Medicine and Biomedicine” and “Big Data and Artificial Intelligence”, and each field includes a number of technical requirements put forward by enterprises or other application institutions. The applying entity shall carry out R&D catering to the relevant requirements (see Attachment 1 for details).

1.2 For each project, a 5-year research plan and corresponding budget shall be provided in the proposal. After the project is approved, a cooperation agreement signed with an enterprise shall be submitted to FDCT, including but not limited to cooperation content, term, division of labor, supporting investment, rights and obligations.

1.3 In accordance with Article XIV of the *Funding Scheme for Scientific Research and Innovation*, an application for continuous funding may be submitted to FDCT after the relevant requirements are basically completed within the designated R&D cycle.

1.4 The application for continuous funding shall be based on the original research topics; relevant cooperation methods, ownership of intellectual property rights and interests and more may be redefined.



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2. “Application Development Category”
 - 2.1 It is divided into three fields: “Biomedicine”, “Information Technology” and “Engineering and Materials”, and each field includes several specific research directions set by FDCT. The applying entity shall carry out technology R&D for practical applications in a specific research direction (see Attachment 2 for details).
 - 2.2 For each project, a 5-year research plan and corresponding budget shall be provided in the proposal.
 - 2.3 In accordance with Article XIV of the *Funding Scheme for Scientific Research and Innovation*, an application for continuous funding may be submitted to FDCT after the relevant requirements are basically completed within the designated research period.
 - 2.4 The application for continuous funding shall be based on the original research topics.

IV. Funding Amount and Project Duration

1. The amount applied for each project ranges from MOP 3,000,000 to MOP 5,000,000.
2. Each project has a funding duration of 3 years, without prejudice to the application for continuous funding prescribed in Article XIV of the *Funding Scheme for Scientific Research and Innovation*. The amount of continuous funding for the fourth and fifth years ranges from MOP 3,000,000 to MOP 5,000,000.



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V. Funding Type

No repayment required.

VI. Application Period

August 22 to September 22

VII. Applying Entities

Entities that fulfill the following conditions are eligible to submit application:

1. Local higher education institutions under the supervision of the Macao SAR Government;
2. Laboratories or other entities engaged in scientific and technological R&D in the Macao SAR;
3. Private non-profit organizations registered in the Macao SAR;
4. Researchers engaged in R&D activities in the Macao SAR.

VIII. Application Documents

Please refer to Article 8 of the *Funding Regulations of the Science and Technology Development Fund* as approved by the Chief Executive's Dispatch No. 93/2023.

IX. Requirements for Expected Project Findings

1. The expected project findings shall include software, hardware (prototype, mock-up), technical standards, formulas, new materials, new technologies, etc., details refer to the attachment,



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and specify the potential economic or social benefits after the utilization of the project;

2. Upon project conclusion, the expected TRL of the project shall be TRL 5 or above after 3 years' research duration; and TRL 6 or above after 5 years' research duration.

X. Project Budget

1. The applying entity shall specify the budget of the project in the application proposal. The spending listed shall meet the conditions of “Eligible Spending” prescribed in the following article;
2. In case of cooperation with commercial enterprises, the budget of the supporting funds invested by such commercial enterprises shall also be provided. For the “Technical Requirements Category” applications, the relevant budget can be supplemented in the cooperation agreement.

XI. Eligible and Ineligible Spending

1. Please refer to Article 6 of the *Funding Regulations of the Science and Technology Development Fund* as approved by the Chief Executive's Dispatch No. 93/2023.
2. For the “Technical Requirements Category”, the requirement proposing unit or its parent company, subsidiaries and other related parties such as interested parties shall not use any funding from FDCT.



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XII. Application Method

The applying entities shall log in the online application system to complete the proposal prior to the deadline of application:

<https://apps.fdct.gov.mo/sams/public/main-page.faces>

XIII. Assessment Criteria

1. The assessment is performed by FDCT according to the *Funding Regulations of the Science and Technology Development Fund* approved by the Chief Executive's Dispatch No. 93/2023.
2. Top priority goes to the projects of "Technical Requirements Category".
3. A maximum of one project will be funded for each technical requirement in the guidelines for "Technical Requirements Category".
4. For the "Application Development Category", top priority goes to collaborative projects jointly proposed by enterprises in Macao and Hengqin, especially those that have been certified under the *Technology Enterprises Certification Program* of the Economic and Technology Development Bureau.
5. Key considerations will be given to the followings:
 - 5.1 Assessment of technologies and research findings
 - 5.1.1 Technical level;
 - 5.1.2 Potential application;
 - 5.1.3 Real-life application.
 - 5.2 Competence of the applying entity
 - 5.2.1 R&D team and research basis;



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- 5.2.2 Qualifications and quantity of team members;
 - 5.2.3 Research conditions;
 - 5.2.4 Cooperative research.
- 5.3 Project planning
- 5.3.1 Assessment of work plan;
 - 5.3.2 Soundness of budget;
 - 5.3.3 Project feasibility.
6. The review of continuously-funded projects focus on the actual R&D progress, budget implementation, and the necessity of continuous project development.
7. FDCT may conduct site inspection to verify the research conditions of the applying entity, interview with the project team and partners (if any) as necessary.

Attachment 1: Funding Scheme for Scientific Research and Innovation:
Application Guidelines for Projects Type C – “Technical Requirements
Category”

Attachment 2: Funding Scheme for Scientific Research and Innovation:
Application Guidelines for Projects Type C – “Application Development
Category”