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## Application Guide for 2022 Key Projects of Guangdong-Foshan Collaborative Fund

### I. Application Requirements

(I) The leading host application institution must be a provincial fund host institution within Guangdong Province, and the key projects of Guangdong-Foshan Collaborative Fund must be led by the host institutions in Foshan or the host institutions in Foshan must participate in the cooperative application.

(II) The applicant should be a current employed and in-service staff of the host institution or staff employed by two organizations (at least one of the following certificates must be uploaded, including the certificate of employment at the supporting institution, employment contract, social security proof in recent three months and payment certificate of individual income tax).

(III) The applicant is the principle investigator in charge of the project and must have the doctorate or the associate senior job title and above. In addition, the applicant should have presided over national or provincial science and technology programs (including National Natural Science Foundation of China and Provincial Fund Projects) or city-level key research projects (the diploma or certificate of job title, project contract, assignment brief or conclusion reply letter must be uploaded on the system).

(IV) The applicant should meet the application requirements in the text of the Notification.

### II. Award Size and Implementation Period

The project award size is **RMB 1,000,000/project**, and the implementation period is generally **3 years**. The project fund is appropriated at a time.

### III. Requirements for expected results

(1) The ability of project team members to undertake national-level science and technology plans and funds in their disciplinary fields has been greatly enhanced to promote regional cooperation in science and technology in the Guangdong-Hong Kong-Macao Greater Bay Area.

(2) Achieve breakthroughs in the research of key scientific problems to support the development of key core technologies.

(2) At least two high-quality papers or patent results published in national science and technology journals with international impact, international top-level or important science and technology journals recognized by the industry, as well as papers presented at top-level academic conferences at home and abroad (referred to as "three types of

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high-quality papers") (to be acknowledged as supported by this provincial-municipal collaborative fund projects), or apply for at least two relevant invention patents. No less than one scientific and technical report shall be submitted.

(3) Encourage the formation of diversified research results in monograph publication, standards and norms, personnel training and application of results.

#### IV. Supported Fields and Directions

**Table 1: Application Guide and Direction List of Key Projects of Guangdong-Foshan Collaborative Fund**

Application Code	Supported Field	Subject Code
<b>(I) Next-Generation Electronic Information Fields (3)</b>		
FSB0101	Research on key technologies for intelligent interconnection of industrial Internet	F01
FSB0102	Research on key technologies for sensing structures of microelectromechanical systems	F04
FSB0103	Research on the application basis of new optoelectronic devices	F05
<b>(II) New Materials Fields (4)</b>		
FSB0201	Research on highly stable functional coating on the metal surface and its anti-corrosion mechanism	E01
FSB0202	Research on key scientific issues of structures of metal matrix composites	E01
FSB0203	Research on design and preparation of nano-bioceramics and monitoring of its <i>in vivo</i> application	E02
FSB0204	Research on key technologies for structural design and preparation of functional polymers	E03
<b>(III) New Energy Fields (4)</b>		
FSB0301	Research on key materials and technologies for high diffusion flux membrane electrodes	E02
FSB0302	Research on key technologies for low carbon combustion control	E06

FSB0303	Research on high pressure and efficient preparation technologies for low-cost green hydrogen	B06
FSB0304	Research on new technologies for efficient utilization of thermogenic radiant energy	E04
<b>(IV) Biomedicine and Population Health Fields (5)</b>		
FSB0401	Research on breeding of new varieties of high-quality animals and plants in Lingnan area	C13
FSB0402	Research on diagnosis and rehabilitation of neurological and psychiatric disorders	H09
FSB0403	Research on the pathogenesis of malignant lymphoma	H16
FSB0404	Research on the identification of active ingredients of geo-authentic Lingnan herbs and antiviral TCM and their mechanism of action	H28
FSB0405	Pathogenesis of immune diseases and new technologies for diagnosis and treatment of new targets	H10
<b>(V) High-end Equipment and Intelligent Manufacturing Fields (4)</b>		
FSB0501	Research on ceramic materials for additive manufacturing and their pre-forming	E05
FSB0502	Research on key technologies for intelligent robots	F03
FSB0503	Research on highly reliable operation and maintenance of complex intelligent equipment for discrete manufacturing	F03
FSB0504	Research on direct-driven control and health assessment methods for high-speed motors	E07