

***Research Proposal***

***Quantum Technology Program***

**量子躍昇專案研究計畫**

Title of Proposal (Chinese) :

\_\_\_\_\_

Title of Proposal (English) :

\_\_\_\_\_

Project Period: March 1st, 2027 ~

Principal Investigator (Chinese) :

\_\_\_\_\_

Principal Investigator (English) :

\_\_\_\_\_

Participating Institutes:

\_\_\_\_\_

Project Discipline \_\_\_\_\_

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# Research Proposal

## *Quantum Technology Program*

### I . General Information

Application Number:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |                                                       |          |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------|----------|--|--|
| Title of Proposal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         | Chinese                                               |          |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         | English                                               |          |  |  |
| Name of Principle Investigator (PI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Chinese |                                                       | Position |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | English |                                                       |          |  |  |
| Institute/Department                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |                                                       |          |  |  |
| Project Period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         | February 1st, 2027 ~                                  |          |  |  |
| Project Discipline                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |                                                       |          |  |  |
| The First-year Budget Request                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                                                       | USD      |  |  |
| The Total Budget Request                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |                                                       | USD      |  |  |
| Corresponding Person                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         | Name: _____ (Chinese) _____ (English)                 |          |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         | Mailing Address (Chinese): _____                      |          |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         | Telephone: (Office) _____ (Home) _____ (Mobile) _____ |          |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         | Fax: _____ E-mail: _____                              |          |  |  |
| <p><b>Principal Investigators' Affidavit:</b></p> <p>The research proposed in this grant application has not been financially supported by any funding agency. I am aware that any withholding, falsification, or misrepresentation of information could result in administrative actions such as the dismissal of an application or the suspension and/or termination of an award, as well as other possible punitive actions.</p> <p><b>Signatures --</b> Principal Investigators: _____ Date: _____</p> <p style="margin-left: 100px;">Principal Investigators of the Sub-projects: _____</p> <p style="margin-left: 350px;">_____</p> <p style="margin-left: 350px;">_____</p> <p style="margin-left: 350px;">_____</p> |         |                                                       |          |  |  |

## II . 1st-year and Total Project Budget Request:

unit: 1,000NTD

| Project Year<br>Category/Item                                                                                                                                                                              | 1 <sup>st</sup> Year<br>(2027/03 –<br>2028/02) | Sub-total             |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------|----------------|
| <b>General Expenses</b>                                                                                                                                                                                    |                                                |                       |                |
| Personnel                                                                                                                                                                                                  |                                                |                       |                |
| Consumables                                                                                                                                                                                                |                                                |                       |                |
| Travel expenses for invited international collaborator to this project (Taiwan inbound)                                                                                                                    |                                                |                       |                |
| <b>Equipment</b>                                                                                                                                                                                           |                                                |                       |                |
| <b>International Travel Expenses</b><br>(Taiwan outbound)                                                                                                                                                  |                                                |                       |                |
| <b>Overhead</b>                                                                                                                                                                                            |                                                |                       |                |
| <b>Total</b><br>( 1USD=30NTD )                                                                                                                                                                             | NTD____<br>(USD____ )                          | NTD____<br>(USD____ ) |                |
| Postdoctoral Research Fellows                                                                                                                                                                              | ____ person(s)                                 | ____ person(s)        |                |
| <b>Other Financial Supports:</b><br><b>Please</b> indicate any other supports from participating institutes, industrial sectors, or other funding agencies. Leave the space below blank if not applicable. |                                                |                       |                |
| Name of funding Source                                                                                                                                                                                     | Category/Item of the funding                   | Amount Committed      | Funding Period |
|                                                                                                                                                                                                            |                                                |                       |                |
| Administrator Signature of funding source: _____<br>(please provide proof document(s) if the signature is not available)                                                                                   |                                                |                       |                |

**III. Project and Sub-project List**

| Categories    | Name of PI | Institutute/<br>Department | Position | Project Title | Percentage of<br>Time* |
|---------------|------------|----------------------------|----------|---------------|------------------------|
| Main Project  |            |                            |          |               |                        |
| Sub-project 1 |            |                            |          |               |                        |
| Sub-project 2 |            |                            |          |               |                        |
| Sub-project 3 |            |                            |          |               |                        |
| Sub-project 4 |            |                            |          |               |                        |
| •<br>•<br>•   |            |                            |          |               |                        |
| •<br>•        |            |                            |          |               |                        |

\*Percentage of time is defined here as the ratio of the hours devoted to this project to the total working hours per week for the PI.

## **IV. Abstract and Keywords**

**(Formatting:** font type: Times New Roman; size: 12 points; spacing: single-space; page limit: **1**)

**Abstract**

**Keywords:**

## V. Description of Proposed Research

Please elaborate the overall proposal and also reason that why this research proposal is worth of being funded.

The contents should include, but not limit to, the background of the proposed studies, the Scientific/technological significance, the specific aims and the research approaches of the proposed project. Please also state the research capacities in terms of the involved research personnel and Institutes.

For proposals under Research Area 1 (Universal Quantum Computer Hardware Technology), please specify quantifiable annual milestones toward fault-tolerant quantum computing, such as the number of logical qubits, physical and logical error rates, and below-threshold demonstrations of quantum error correction.

All proposals are encouraged to describe collaboration with national research institutes, universities, and industry, as well as the feasibility of interfacing research outcomes with national high-performance computing (HPC) and research network infrastructure.

**(Formatting: font type: Times New Roman; size:12 points; spacing: single-space; page limit: 5, including tables, figures and references)**

Form CC05

## VI. Complementary Measures from the Involved Institutes

Please describe any complementary measures from the involved Institutes.

The support for the project can be in the form of funds, space, and/or research manpower, etc.

**(Formatting:** font type: Times New Roman; size:12 points; spacing: single-space; page limit: **1**)

## VII. Curriculum Vitae (CV)

(Required for all **PIs and co-PIs** of the main and sub-projects; **2-page** limit for each CV)

Each CV should include the following information:

1. General information (e.g. name, contact information, etc.)
2. Education.
3. Current position and relevant experience.
4. Fields of academic specialty.
5. Major awards and honors.
6. Publications, which are related to this proposal, in the past five years. They may include technical reports, patents, periodical articles, or books
7. Research projects executed in the past five years.