

# National Science and Technology Council Grant Proposal Frontier Science Research Program

## 1. General Information

Application Number: 

Research Project Title	Chinese			
	English			
Department for Proposed Area of Research		<input checked="" type="checkbox"/> Dept. of Life Sciences (生科處尖端科學研究計畫)		
Project Discipline				
Principal Investigator (PI)	Name (English)		Name (Chinese)	
	Position (English)		Position (Chinese)	
Institution & Department				
Project Entire Period		From <b>8/1/2023</b> to <b>7/31/2028</b>		
Type of Research		<input type="checkbox"/> Pure basic research <input type="checkbox"/> Oriented basic research <input type="checkbox"/> Applied research <input type="checkbox"/> Experimental development		
Does this research project include the following? (Check as applicable and attach relevant consent forms.)				
<input type="checkbox"/> Human Studies/ Human Specimen <input type="checkbox"/> Human Embryo/ Human Embryonic Stem Cell <input type="checkbox"/> Gene Recombination <input type="checkbox"/> GMO Field Trial <input type="checkbox"/> Microbes in Risk Group 2,3,4 <input type="checkbox"/> Animal Studies(Must also attach a description of the 3R ethical principles of animal experiments)				
Corresponding Person		Name: _____ (Chinese) _____ (English) Mailing Address in Chinese: _____ Telephone: (Office) _____ (Home/Mobile) _____ Fax: _____ E-mail: _____		
Principal Investigators' Affidavit: 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.				
<b>Signatures --</b> Principal Investigator (PI) : _____ Date: _____  Co-PI of the Project, if any: _____				

## 2. Check List

check/page

(1) General Information (Form FS01) .....	<input type="checkbox"/> - 1
(2) Check List (Form FS02) .....	<input type="checkbox"/> - 2
(3) Requested Budget for Entire Term of Project Period (Form FS03).....	<input type="checkbox"/> - 3
(4) Key Professional Personnel (Form FS04).....	<input type="checkbox"/> -
(5) Personnel Expenses (Form FS05).....	<input type="checkbox"/> -
(6) Consumable Expenses (Form FS06).....	<input type="checkbox"/> -
(7) Equipment Expenses (Form FS07).....	<input type="checkbox"/> -
(7-1) Grant Proposal of Large Instrument (Form FS07-1) .....	<input type="checkbox"/> -
(8) Travel Expenses for International Destinations-Overseas Studies (Form FS08).....	<input type="checkbox"/> -
(9) Travel Expenses for International Destinations-International Conferences (Form FS09).....	<input type="checkbox"/> -
(10) Previous and Current Research Projects and Submitted Proposals (Form FS10)....	<input type="checkbox"/> -
(11) Keywords and Abstract in Chinese (maximum 500 characters) (Form FS11)	<input type="checkbox"/> -
(12) Keywords and Abstract in English (maximum 500 words) (Form FS12).....	<input type="checkbox"/> -
(13) Contents of Grant Proposal (Form FS13).....	<input type="checkbox"/> -
(14) 國科會個人資料表 (Form FS14).....	<input type="checkbox"/> -
(15) Curriculum Vitae (Form FS15).....	<input type="checkbox"/> -
(16) Reprints of within 5 papers.....	<input type="checkbox"/> -

### Remarks:

**(1) Use Times New Roman font, 12-point type, and single-spacing.**

**(2) Proposal does not meet these format requirements mentioned and page limit will automatically be rejected.**

### 3. Requested Budget for Entire Term of Project Period:

Currency unit: NTD (1 USD  $\cong$  30 NTD)

Project Year		First year from	Second year from	Third year from	Fourth year from	Fifth year from
		___/___ to ___/___ ( M M / Y Y )	___/___ to ___/___ ( M M / Y Y )	___/___ to ___/___ ( M M / Y Y )	___/___ to ___/___ ( M M / Y Y )	___/___ to ___/___ ( M M / Y Y )
Budget Categories						
<b>General Expenses</b>						
Personnel						
Consumables						
Hosting Expenses for Foreign Researchers						
<b>Equipment</b>						
<b>Travel Expenses for International Destinations</b>						
Joint Research & Overseas Studies						
International Conferences						
Overhead						
Total for Each Year						
Postdoctoral Research Fellows	Domestic or Foreign	_____ persons	_____ persons	_____ persons	_____ persons	_____ persons
	Mainland China	_____ persons	_____ persons	_____ persons	_____ persons	_____ persons
Indicate support from the participating institutions or other organizations (including industrial support). Leave space blank if not applicable.						
Supporting Institution	Items Funded (Personnel, Equipment, etc.)	Amount of Funding	Funding Period	Evidence of Support		
Signature of the administrator of PI's department: _____ (or attach other evidence of support)						

### 4. Key Professional Personnel:

(1) Indicate “staff type” in the following order: principal investigator (PI), collaborating principal investigator (co-PI), assistant investigator, and postdoctoral research fellow.

Staff Type	Name (In Chinese and English)	Institution/ Department	Position	Role in Project	Percent of Effort*

\*Percent of effort is defined as the percentage of the hours devoted to this project to the total working hours per week. For instance, 50% means this individual will devote a half of his/her working hours to this research project each week.

(2) If requesting funds for postdoctoral research fellows , indicate the followings for each year of the project:

- 1) Field(s) of specialization
- 2) Role and research work
- 3) Contribution or impact on this research project
- 4) Standards of performance evaluation
- 5) If a candidate of postdoctoral research fellow has already been selected, provide candidate’s name and attach personal information and curriculum vitae (Form FS15 & Form FS16).

### 5. Personnel Expenses:

For “type/rank” indicate full-time research assistant (already holding master’s, bachelor’s, technical college, or high school degrees), part-time research assistant (including Ph.D. students, master’s students, undergraduate students, lecturers, and teaching assistants) or temporary staff.

Currency unit: NTD

Project Year Salary Type/Rank	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	4 <sup>th</sup> Year	5 <sup>th</sup> Year	Total amount for Entire term of Project Period
Full-time Assistants  Rank, Number and Amount of NTD:						
Part-time Research Assistants  Rank, Number and Amount of NTD:						
Subtotal for Each Year & Total of 5 years:						

### 6. Consumable Expenses:

- (1) Complete this form for all consumables (excluding research equipment), books and miscellaneous expenses needed for executing this research project.
- (2) For “description” indicate product specifications, functions, and relevant information.
- (3) If proposing institution provides support or funding, indicate in “remarks” column.
- (4) Complete the table with separate pages for each year.

Currency unit: NTD

Item	Description	Unit ("Piece," Batch", "Box," etc.)	Quantity	Unit Price	Amount	Remarks
Total						

### 7. Equipment Expenses:

- (1) Complete this form for necessary equipment directly related to this research project costing over NT\$10,000 with service life over two years. Indicate subtotals for each piece of equipment in the “Amount” column.
- (2) Attach price appraisal form for equipments above NT\$200,000.
- (3) If proposing institution or another organization provides funding for equipment, indicate supporting institution and amount funded.
- (4) For each piece of instrument or equipment costing NT\$600,000 provide detailed information of specifications and functions (including sensitivity, accuracy, etc.), important features, and significance for this project. If funding for this equipment is granted, the PI should maintain it and allow other researchers outside this research project to make full use of it, provided that such use does not interrupt the research work described in this proposal.
- (5) Please also fill out Form FS07-1 for any instrument which unit price is equal or over 10 million NTD on this proposal’s purchase list. The approved item will be granted separately from this proposal as an instrument-grant project.
- (6) Complete the table with separate pages for each year.

Currency unit: NTD

Type	Equipment (English/Chinese)	Description	Quantity	Unit Price	Amount	Funding requested from	
						NSTC	Other Institutions
Total							

**7-1. Grant Proposal of Large Instrument:**

**National Science and Technology Council  
Grant Proposal of Large Instrument**

**I. General Information**

Project Term		From _____ to _____ (MM/DD/YY)		
Institution/Department				
Principal Investigator(PI)			Position	
Research Project Title	Chinese			
	English			
Instrument Name	Chinese			
	English			
Person in charge of Instrument			Position	
Research Project Discipline which this is affiliated with (ref: "Discipline Code Table")		Discipline Code	Discipline	

Applicant, PI (Signature): \_\_\_\_\_ Date: \_\_\_\_\_

Dean of Research and Development (Signature): \_\_\_\_\_ Date: \_\_\_\_\_

President (Signature): \_\_\_\_\_ Date: \_\_\_\_\_

## II. Budget Request:

- i. Any budget request for an instrument, which unit price is equal or over 10 million NTD, must be directly affiliated with the PI's research project. Please fill out the corresponding "subtotal" with the sum for peripheral apparatuses listed.
- ii. A quotation is required for each intended purchase.
- iii. Please provide the name of institute, the amounts of matching fund, and the documentary proofs for each matching fund item.

Currency unit: NTD

Category	Instrument/ Device (in Chinese/English)	Description	Quantity	Unit Price	subtotal	Budget Request	
						Fund from NSTC	Matching funds from others (please include institute name and the amount)
合 計							

Matching funds from others(go to the next page if none): matching funds should be listed with discretion (the matching funds listed below shall have first priority in use)

Institute	Matching Item	Matching Amount	Executive year	Documentary proof

- III. Instrument Introduction (please describe specifications, functions, and applications of instruments, auxiliary parts, and peripheral apparatus)
- IV. The association between the instrument and research project (Please state the need, necessity and urgency of this purchase in detail)
- V. Survey of domestic instruments (Please provide the current number of devices with identical functions and their operation status)

- VI. Project PI's expertise in relation with the instrument (research achievement and experiences with the same or similar instruments)
- VII. Instrument operation planning within the project term
- VIII. Planning of instrument maintenance and management
- IX. Space Arrangement (Please describe the location, space, and vicinity, etc.)
- X. Post-project maintenance and operation strategy (Please state any plans for research and/or service purposes)
- XI. Training program for instrument operation and maintenance (Please list student trainees, full-time and part-time technicians, operation schedules, and training courses)
- XII. Other applications and potential users of the instrument
- XIII. Experiences on NSTC instrument operation and management

## **8. Travel Expenses for International Destinations-Overseas Studies:**

( Skip this form if the proposal without travel expenses for International Destinations-Overseas Studies. )

- (1) Principal Investigators and relevant personnel involved in project may apply funding for carrying out international joint research, field study, experiment, survey, samples collection, and use of research facilities overseas.
- (2) Describe the itinerary, proposed budget, duration, and destination for each person traveling abroad. In case that receiving parties should bear the living expenses of visitors from abroad as agreed through bilateral arrangement, please do not include the spending.
- (3) Amount of funding provided for subsistence, airfare and other expenses for international travel can be found at the following website: <http://law.dgbas.gov.tw/LawContent.aspx?id=FL020312>
- (4) Convert all currencies into NT dollars and specify exchange rate.
- (5) Fill in separate pages for each year.

## **9. Travel Expenses for International Destinations-International Conferences:**

- (1) Principal Investigators and relevant personnel involved in project may apply international travelling expenses for attending international academic conference held overseas.
- (2) Describe the nature of conference, proposed budget, venue and duration.
- (3) Please refer to the following website for information about amount of funding regarding international airtickets, daily allowance and others.  
<https://law.dgbas.gov.tw/LawContent.aspx?id=FL017584>
- (4) Briefly describe any participation in international conferences in the past three years. Indicate conference title, dates, venue, sponsoring organization, and title of conference paper presented therein. For any publications resulting from the conference, provide name of journal or publication, volume, page number, and date of publication.
- (5) Fill in separate pages for each year.



**11. Keywords and Abstract in Chinese** (within 1 page)

**12. Keywords and Abstract in English** (within 1 page)

### **13. Contents of Grant Proposal:**

**Page limit for Contents of Grant Proposal is 25 pages.**

- (1) Summarize achievements and/or progress of the past five years directly related to this research proposal.(Provide the results of the previous one of granted frontier science project, if any.)
- (2) Describe the significance of this research proposal including prospects for academic excellence, innovations in scientific research or technological development, and impact on research field and international competitiveness.
- (3) For each year of the project, specify the objectives as well as material and methods.
- (4) Specify the anticipated results and accomplishments for each project year.
- (5) Describe the research infrastructure in PIs' institutions including possibility of matching funds, working space, facilities, etc.
- (6) Provide references.

## 14. 國科會個人資料表：

## 國科會個人資料表

以下各項資料均將收錄於本會研究人才資料庫，作為學術補助獎勵等申請案之審查參考。依據政府資訊公開法第七條第五款，本會核定通過之學術補助獎勵案之主持人姓名及執行機關，均公開於本會對外網站，提供外界查詢。為促進學術交流，您的 E-mail、學歷、經歷等資料是否亦可同步公開提供外界查詢，請您圈選（同意、不同意）。

## 一、基本資料：

簽名：\_\_\_\_\_

填表日期：20\_\_\_\_/\_\_\_\_/\_\_\_\_

身分證號碼										
中文姓名				英文姓名						
				(Last Name)	(First Name)	(Middle Name)				
國籍				性別	<input type="checkbox"/> 男	<input type="checkbox"/> 女	出生日期	19____年____月____日		
聯絡地址	□□□□□									
聯絡電話	公)		(宅 / 手機)							
傳真號碼						E-mail				

## 二、主要學歷 由最高學歷依次填寫，若仍在學者，請在學位欄填「肄業」。

學校名稱	國別	主修學門系所	學位	起訖年月(西元年/月)
				自____/____至____/____
				自____/____至____/____
				自____/____至____/____
				自____/____至____/____

## 三、現職及與專長相關之經歷 指與研究相關之專任職務，請依任職之時間先後順序由最近者往前追溯。

服務機構	服務部門/系所	職稱	起訖年月(西元年/月)
現職：			自____/____至____/____
經歷：			自____/____至____/____
			自____/____至____/____
			自____/____至____/____
			自____/____至____/____
			自____/____至____/____

## 四、專長 請填寫與研究方向有關之學術專長名稱。

1.	2.	3.	4.
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## **15. Curriculum Vitae:**

**Please provide the following information within 4 pages:**

- (1) Name, Gender, Birth date.
- (2) Education.
- (3) Current position and relevant experience.
- (4) Fields of specialty (limit to fields related to research)
- (5) Major awards and honors.
- (6) Significant project-related publications in the past 5 years, including technical reports, patents, periodical articles.