**中央研究院111年度「關鍵突破種子計畫」計畫書**

**2022 Academia Sinica Grand Challenge Program Seed Grant Application Form**

|  |  |  |  |
| --- | --- | --- | --- |
| 計畫類別  Project Category | 🞏 1.個人型 Individual Project  🞏 2.單一整合型 Integrated Team Project | | |
| 計畫名稱Project Title | 中文： | | |
| English: | | |
| 計畫(總)主持人  Project PI | 中文： | 職稱  Position |  |
| English: | 申請單位  Affiliation |  |
| 計畫共同主持人  Project Co-PI(s) | 中文 / English:  1. | 職稱/單位Position/Affiliation | |
| 2. |  | |
| 3. |  | |
| 4. |  | |
| 計畫經費  單位：新臺幣千元  Total Budget  Unit: thousand NTD | 第一年 Year 1: | 第二年 Year 2: | |
| 計畫聯絡人  Project  Contact Person |  | Email: | |
| Tel: | |
| 計畫關鍵詞  Keywords | 中文：  English: | | |

**中央研究院111年度「關鍵突破種子計畫」計畫書**

**2022 Academia Sinica Grand Challenge Program Seed Grant** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

計畫名稱（中文）：

Project Title (English):

計畫(總)主持人Project PI / 申請單位Affiliation:

計畫類別 Project Category: | 🞏 個人型 Individual Project | 🞏 單一整合型 Integrated Team Project |

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**1. Summary Statements**

Please address each of the following questions in short statement(s) of less than 100 words:

|  |
| --- |
| i) What is the grand challenge problem to be addressed? Which part of the problem will be solved? |
| ii) How are you going to solve the problem you identified? How innovative is your approach? |
| iii) How transformative and what is the extent of anticipated impact, if it works. |

**2. Research Plan**

Based on the summary statements above, elaborate further i) the **specific problem to be solved**, the state-of-the-art and the current bottleneck; ii) the **innovative ideas proposed,** the novel elements, to what extent is the approach innovative, and what are the closest ideas published by others to date; iii) the **potential impact of the work**, how it may lead to a breakthrough and transform the field if the project is successful; iv) **plans to test the ideas**, the specific aims and their respective research approaches, the scientific or technical challenges, potential risks and key deliverables, along with any alternative plans to de-risk. Also briefly describe the international competitiveness of your project, the organization and complementary expertise of the team you assembled (for integrated team project).

*This section including references is limited to* ***two*** *pages in total (1 inch or 2.54 cm margins for all sides, single spaced, font: Times New Roman or Calibri, 11 point).*

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**3. Budget Plan and Justification**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 年度Year | | | 1 | 2 |
| 業務費  Operating Expenses (A) | 教育訓練費Training | International |  |  |
| Domestic |  |  |
| Mainland China |  |  |
| 旅費  Travel | International |  |  |
| Domestic |  |  |
| Mainland China |  |  |
| 臨時人員酬金Personnel Salary | |  |  |
| 研究相關耗材費用Consumables | |  |  |
| 業務費總額Total (A) | |  |  |
| 機械(儀器)設備費Equipment (B) | 非資訊相關Non-Computer Item | |  |  |
| 資訊相關Computer-related Item | |  |  |
| 設備費總額 Total (B) | |  |  |
| 獎補助費Graduate Student Stipend (C) | | |  |  |
| 總金額Total (T) = (A)+(B)+(C) | | |  |  |

\*單位：新臺幣千元 \*Unit: thousand NTD

Briefly justify the total budget requested and how it will be distributed among the co-PIs and PIs for integrated team projects.

*The Total Budget Plan (using Table above) and the descriptive justifications to be provided should not exceed* ***one*** *page.*

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**4. Personal Track Record and Biographical Sketch** (for PI and each co-PIs)

4.1 **Summary of Previous Research Accomplishments**

(1) Summarize and highlight your previous research accomplishments in the **last five years**.

(2) List all publications and other output resulting from recently completed (2020-2021) and current Academia Sinica Grant supports that have specifically acknowledged the AS funding source. Do not include manuscripts in preparation or submitted.

*Limit to* ***one*** *page for the descriptive item (i).*

4.2 **Current and Pending Grant Support**

List any current (ongoing) and pending projects/proposals funded by Academia Sinica and external agencies. Applicants must fully disclose if similar proposal has also been submitted to MoST or other funding agencies at the time of submitting this proposal to AS, with the extent of overlaps, amount and any cost-sharing item requested fully described and justified here to avoid duplicated funding. Subsequently, applicants must pro-actively inform the AS grant program office if the funding decision of any pending application is known before the outcome of this application is announced. Any incomplete or inaccurate information will adversely affect the consideration of this proposal.

For each of the current/pending grants, provide the following details:

(1) Funding Agency and Project Type:

(2) Grant Title and number:

(3) Status: □ Current (ongoing) □ Pending (expected date of funding decision: YYYY/MM)

(4) Research Role: □ Project PI □ Subproject PI □ Project co-PI □ Subproject co-PI

(5) Project Period: \_\_\_\_\_\_(YYYY/MM) to \_\_\_\_\_\_(YYYY/MM)

(6) Funding Amount in thousands of NTD

|  |  |  |
| --- | --- | --- |
| Year | Total Project Amount | Individual Project Amount |
|  |  |  |
|  |  |  |
|  |  |  |

(7) Is there any relationship between this project/proposal and the Grant Program you are applying? □ No □ Yes (if yes, go to item 8)

(8) Describe and justify any overlap with current application (in less than 500 words)

4.3 **Biographical Sketch**

Use the template provided in the next page to prepare your **Biographical Sketch**,which should include among others:

i) a **Personal Statement** - brief self-introduction of research path/career in 200-300 words;

ii) **Contributions to Science** - a summary of major research achievements by referring to selected key publications and other forms of contributions, their significance and impact;

iii) **Complete/Selected List of Recent Publications** - selected key publications can be combined with a more complete list of publications in the last 5 years, but keep to the total page limit

*This section including list of publications should not exceed* ***four*** *pages for each PI and co-PI. Alternative CV format can be used for PIs from Division of Humanities and Social Sciences but please keep to same page limit.*

**BIOGRAPHICAL SKETCH**

**NAME:** 中文姓名**：**

**INSTITUTE/RESEARCH CENTER:**

**Current POSITION:**

**EDUCATION** (Begin with baccalaureate or other initial professional education)

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| --- | --- | --- | --- |
| **INSTITUTION AND LOCATION** | **DEGREE** | **DURATION**  MM/YY-MM/YY | **FIELD OF STUDY** |
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**EMPLOYMENT** (Include postdoctoral training)

|  |  |  |  |
| --- | --- | --- | --- |
| **INSTITUTION AND LOCATION** | **POSITION TITLE** | **DURATION**  MM/YY-MM/YY | **FIELD OF STUDY** |
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1. **PERSONAL STATEMENT**

A brief self-introduction of research path/career, 200-300 words

1. **HONORS**

Include professional distinctions and service, honors and selected speaking invitations

1. **CONTRIBUTIONS TO SCIENCE**

Summarize major research achievements and describe their significance and impact

1. **LIST OF PUBLISHED WORK**

Provide a complete or selected list of recent (last 5 years) publications to keep within the total 4-pages limit. Earlier key publications can also be provided here, or under item III above.

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