**中央研究院110年度「關鍵突破種子計畫」計畫書**

**2021 Academia Sinica Grand Challenge Program Seed Grant Application Form**

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| --- | --- |
| 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ProjectContact Person |  | Email:  |
| Tel:  |
| 計畫關鍵詞Keywords | 中文：English: |

**中央研究院110年度「關鍵突破種子計畫」**

**2021 Academia Sinica Grand Challenge Program Seed Grant**

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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:

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| --- |
| 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**

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| --- | --- | --- |
| 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. Biographical Sketch and Summary of Research Accomplishments**

Each PI and co-PI should use the template provided in the next pageto prepare their **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) **Recent Accomplishments** - a summary of research accomplishments in the last five years, paying particular attention to describing the respective outcome from grant supports. Include the funding sources and grant number as would be listed in the publications cited for all accomplishments described here. Do not include manuscripts in preparation or submitted.

iv) **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 Biographical sketch, summary of research accomplishments and list of publications should not exceed* ***five*** *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.*

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**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)

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| --- | --- | --- | --- |
| **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

**IV. RECENT ACCOMPLISHMENTS** from Grant Support

 Summarize the more recent research accomplishments (last 5 years) and credit them to grant supports where applicable

1. **LIST OF PUBLISHED WORK**

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

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**5.** **List of Current and Pending Grant Support**

Please list any current and pending projects/proposals funded by Academia Sinica and external agencies in the last three years (from 2018-2020). Any incomplete information may adversely affect the consideration of this proposal. Please be reminded that applicants should not submit the same proposal to multiple funding sources at Academia Sinica and/or to external funding agencies at the same time.

主持人/共同主持人Principal Investigator/co-PI:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | (1) Funding Agency and Project Type補助單位及計畫類型:(2) Grant Title and number計畫名稱與編號 : ● Status計畫狀態: □ A. Current執行中 □ B. Pending申請中 ● Research Role計畫擔任角色: □ A. Project PI 計畫主持人  □ B. Program Director 總計畫主持人 □ C. Subproject PI分支計畫主持人(3) Project Period執行期間: \_\_\_\_\_\_(YYYY/MM) to \_\_\_\_\_\_(YYYY/MM)

|  |  |  |
| --- | --- | --- |
| Year 年度 | Total Project Amount 總研究經費 |  Individual Project Amount個人研究經費 |
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(4) Funding Amount in thousands of NTD補助總額 (仟元) (5) Is there any relationship between this project/proposal and the Grand Challenge Program for which you are applying? 此計畫是否與本次申請計畫有相關？□ No □ Yes. (Please specify details請敘明其關聯性) |
| 2 | (1) Funding Agency and Project Type補助單位及計畫類型:(2) Grant Title and number計畫名稱與編號 : ● Status計畫狀態: □ A. Current執行中 □ B. Pending申請中 ● Research Role計畫擔任角色: □ A. Project PI 計畫主持人  □ B. Program Director 總計畫主持人 □ C. Subproject PI分支計畫主持人(3) Project Period執行期間: \_\_\_\_\_\_(YYYY/MM) to \_\_\_\_\_\_(YYYY/MM)

|  |  |  |
| --- | --- | --- |
| Year 年度 | Total Project Amount 總研究經費 |  Individual Project Amount個人研究經費 |
|  |  |  |
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(4) Funding Amount in thousands of NTD補助總額 (仟元) (5) Is there any relationship between this project/proposal and the Grand Challenge Program for which you are applying? 此計畫是否與本次申請計畫有相關？□ No □ Yes. (Please specify details請敘明其關聯性) |

*\*Extend this form as necessary to include all funding sources.*