**中央研究院「核心設施及新創儀器計畫」計畫書**

**Academia Sinica Core Facility & Innovative Instrument Grant**

|  |  |
| --- | --- |
| 計畫名稱Project Title | 中文： |
| English: |
| 計畫類別Project Plan Category | 🞏 1.設施建置型 Core Set-Up Plan 🞏 2.設施維運型 Core Operation Plan🞏 3.新創儀器與技術開發型Innovative Technology Development Plan(可複選，Tick all applicable) |
| 計畫主持人Project PI | 中文： | 職稱Position |  |
| English: | 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. |  |
| 計畫期程與經費單位：新臺幣千元Budget Unit: thousand NTD | 111 年1月1日 至 \_\_\_\_\_年12月31日，共 \_\_\_年 (至多5年Max 5 years) |
| 第一年 Year 1: *e.g.* 5,000 千元 | + 設備費 (Equipment): *e.g.* 30,000 千元 |
| 第二年 Year 2: | 第三年 Year 3: |
| 第四年 Year 4: | 第五年 Year 5: |
| 設施設置場地Host/Location | 所、中心或某棟大樓之樓層與實驗室門號(如有)，Institute/Center Building, Floor: |
| 計畫聯絡人ProjectContact Person |  | Email:  |
| Tel:  |
| xxx 所/中心同意給予明列於本計畫書內執行此計畫所需的行政支援Name of Institute/Center agrees to provide the requested administrative support as stated in the proposal. |
| 設置所在地或所隸屬之單位主管簽章:Director of Host Institute/Center: | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 日期:Date: | \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**中央研究院「核心設施及新創儀器計畫」計畫書**

**Academia Sinica Core Facility & Innovative Instrument Grant** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

計畫名稱（中文）：

Project Title (English):

計畫主持人/單位Project PI/Affiliation:

共同主持人co-PI(s):

本計畫含 🞏 設施建置；🞏 設施維運； 🞏 新創儀器與技術開發

This Project includes plans for 🞏 Setting-Up; 🞏 Operation; 🞏 Innovative Technology Development

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**1. 中英文摘要Abstract\***

中文摘要：請於500字內扼要闡述此核心設施之主要技術平台、使用者族群、對本院學術研究發展的重要性，並指出本計畫主在持續維運該設施或為新建置，是否有技術開發的成分或以新創儀器為主，其未來可能的服務及營運模式，可望達到的績效。

English Abstract: Please provide a brief executive summary in less than 300 words of what this core facility is about, whether it is a new set-up or a continuing operation, what cutting edge technology it is based upon, how it intends to serve which user community, and whether it involves further technical development, focus solely on the routine operation, or initially on technology and instrument innovation that can be put into service by end of the project.

\*Both **Chinese** (≤500 words) AND **English** (≤300 words) Abstracts are required.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. 計畫內容Project Plan

此部分 (含簡要量化績效表及參考文獻) 以5頁A4為限 (各邊界皆設為2.5 cm, 單行間距, 字型11)，中英文不拘，撰寫時請刪除藍色的說明文字

This section can be written in Chinese or English, with a 5-page limit (A4 size, 2.5 cm margin for all sides, single spacing, 11-point font size Times New Romans for English writing) inclusive of the past performance indices Table in section 2.3 and cited references. Please delete all explanatory notes in blue when writing the proposal.

2.1 設施及(或)擬新創之儀器與技術 (1頁)

Overall description of the intended Core and/or Technology Development (1 page)

簡述此共用設施之整體架構、屬性及其重要性；現有或擬購置或開發之軟硬體設備與其主要技術平台，在院內之普遍度；設施儀器設備之先進或堪用程度、新創儀器功能或技術之研發的必要性、其全球發展與應用現況及重要性；主持人及設施相關人員之專業程度。

Briefly describe the structure, organization and importance of the Core, its principal technology platform, current state-of-the-art, status of its major equipment/facilities, the necessity for further innovation and technical development, and the professional expertise of the Core manager, technician(s) and PI(s).

2.2建置與營運規劃 (2頁)

Setting-Up and/or Operation Plans (2 pages)

詳述此設施之現在與(或)未來營運模式的規範，含：(一)開放服務的模式與時段相對於投入技術研發的比重；(二)服務對象及有否對院外收費服務之需求與必要性；(三)預約使用系統與管理辦法；(四)本計畫項下約聘人員外另有配合之行政與人力資源經費，合理的收費標準及收支平衡策略；(五)諮詢或督導委員會與使用者委員會的設立，及其與設施經理/主持人的互動機制；(六)設施資訊傳播媒介(含網頁)的完備，教育訓練與推廣等業務。

Describe current and/or future operation plans, including (1) engagement/service mode(s) and allocated time slots versus technical development components; (2) intended user communities and whether it needs to and will serve users paying for the service with outside AS-funding resources; (3) scheduling and reservation systems; (4) personnel and other administrative support, with a service fee structure reflective of operation cost and a sustainable balanced budget; (5) mechanism to productively engage steering and user committees, (6) information dissemination (including website and social media) and training courses

若計畫主要為新創儀器或技術開發，需具體規劃最晚於計畫第三年成立或附屬於某特定既有設施，開始依本計畫書規劃模式試營運、接受委託服務。

If the project focuses primarily on innovative instrument or technology development, describe how the technology can be transferred to existing or to be set-up Core at the latest in the third year of the project funding period (year 3 or earlier) as a service item, in accordance with the projected milestone and execution plans of this proposal.

2.3 過去績效（非延續性之設施維運型計畫可免寫）(1頁)

Past Performance (applicable only to continuing Core operation project) (1 page)

(一) 質化績效：如過去支援之顯著研究成果案例說明、其相關研究論文發表或產出等，請闡述所提供之技術平台如何讓研究人員有效取得所需關鍵數據，進而產出有顯著學術影響力的成果，並敘明其服務模式之適當性與必要性。

(二) 量化績效\*：以過去3年績效為主，得依屬性自行選擇適合量化呈現之方式，或參照以下表格自行增減其欄位項目並予以備註說明，另可提交更詳細之數據與分析圖表為計畫書之附件。

|  |
| --- |
| **設施之名稱:**  |
| 年度 (12個月)成果量化 | 109年 | 108年 | 107年 | 備註 說明 |
| 服務之研究單位數  |  |  |  | 含院內外研究所、中心等共幾個單位 |
| 服務之研究實驗室數 |  |  |  | 服務之PI 人數 |
| 教育訓練人數 |  |  |  | 說明模式 |
| 服務之人次數 |  |  |  | 年度服務總人次 |
| 使用時數 |  |  |  | 說明不同儀器之個別或整體使用率\*\* |
| 使用次數 |  |  |  |  |
| 服務之案件數 |  |  |  |  |
| 設施服務收入(NT $) | 院內 |  |  |  |  |
| 院外 |  |  |  | 院外計畫經費、服務院外單位收入 |
| 其他 |  |  |  | 請自行簡述 |

\* 所提供之數據應與第2.2項所敘述之營運模式相呼應，藉由此量化表彰顯維運模式之適當性與可行性，並作為服務績效之佐證

\*\* 若有一台儀器以上提供服務，可分別陳列或加總其整體時數與使用率，於備註欄或以腳註說明計算法，並另以附件提供詳細數據

Qualitatively and quantitatively describe the past performance of a continuing Core, citing productive service, collaborative and/or R&D case examples, as well as service statistics over the last 3 years, as deemed appropriate to demonstrate the strength and usefulness of the Core. The performance record described here should be consistent with and attest to the efficient management and operation of the Core outlined in Section 2.2 above. Provide additional Supplementary Info, if necessary.

2.4預期成果或績效 (1頁)

Anticipated Output & Performance Indices (1 page)

(一) 質化指標：說明計畫執行期間預期完成之設施維運服務或設置工作項目，含預計協助執行或服務之研究計畫、針對其技術平台之精進與提升的研發工作與目標，或新創儀器之完成、其整併於既有或新設施之服務模式的建立；並簡述整體對於本院學術研究發展及其他應用方面預期之貢獻。

(二) 量化指標：以第2.3項所呈現之量化績效項目為據，說明是否需要調整計畫執行期間可預期的指標，包括服務對象、研究產出、設施使用率、服務件數與收入、人員訓練等。如為新建置之設施或新創儀器/技術平台，請估算可望達成的績效。

Describe the anticipated deliverables and scientific impact, established technology platform, completed instrument innovation and its development into service items. Provide also quantitative performance indices such as usage and output statistics and whether it would be significantly different from immediate past performance for existing core (as described in Section 2.3) and thus need to be suitably adjusted.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. 人力與經費需求 Personnel and Budget Request

3.1 人力與員額 Personnel

請於下表填列預計於本設施計畫項下約聘僱之研究與技術人員、助理，及其所需薪資(約估)和總員額，於備註欄簡述其工作項目與必要性，並據此需求估算全年臨時人員酬金總額，填入總經費需求表。

Using the Table below, provide the names and the total number of personnel to be hired out of this grant, their rank and approximate first year salary total based on the intended starting salary scale. Justify by a brief description of their expertise and assigned role(s) in the Remarks column.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 員額 | 名字(或待聘) | 類別 | 年薪(第一年) | 備註 |
| 1 | XXX  | 特殊性約聘技術人員 |  |  |
| 2 | XXX | 特殊技能助理 |  |  |
| 3 | XXX | 行政助理 (碩士級) |  |  |

3.2 業務費總需求表 (金額單位:新臺幣千元) Budget Request

申請期程至多5年，每年實核經費依上一年度績效報告決定之，不符預期績效且無明顯改善者可於次年停止補助。機械與資訊設備費及國外旅費需求可每年專案申請，不列入此需求表。臨時人員酬金應符合第 3.1 項之人力與員額需求表。其他任何需要補充說明以利審查之項目，如價額較高之實驗耗材或維護合約等，可條列於腳註。

The maximum number of funding period that can be requested is 5 years and renewable subjected to competitive review. The total amount to be granted per year is subjected to satisfactory performance as demonstrated in the annual report. Funding can be terminated in the following year if deemed not performing adequately and not showing any sign of improvement. Equipment fund (including IT-related hardware and software) and overseas traveling fund can be requested separately on a yearly basis and therefore not to be included in this budget plan. The budget requested for personnel should be consistent with that described in Section 3.1. Any unusually high-cost items should be well-justified, with Supplemental Info if necessary, to secure a favorable review.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 項目類別 | 分項 | 第1年 | 第2年 | 第3年 | 第4年 | 第5年 |
| 臨時人員酬金 Personnel & Visiting Professionals  | 約聘人員薪資、勞健保、年終及加班費等 |  |  |  |  |  |
| 邀請來台專家學者之專業服務費(含旅費與日支生活費) |  |  |  |  |  |
| 計畫相關之業務費用Consumables & other operating expenses | 實驗耗材、物品、運費、專業服務費，及一般事務費 |  |  |  |  |  |
| 設施及機械設養護費用、維護合約 |  |  |  |  |  |
| 國內旅費及訓練費 |  |  |  |  |  |
| 合計： |  |  |  |  |  |
| \*院外經費來源之服務總收入： |  |  |  |  |  |

\* 請估算並申請每年預計由院外經費來源之服務總收入額度，審查將考量設施之屬性及院外服務之必要性，來核定年度可收院外經費來源額度之上限。此估算所依據之歷年院外經費收入明細，可提供於附件以利審查。

\* Please estimate the total yearly income that is expected to come from service fee paid out of external non-AS funding and request for a maximum yearly quota that will be fully reimbursed by AS. Previous service record justifying this estimation and request can be provided as Supplemental Info.

3.3 第一年度(111年度)機械設備費需求 (金額單位:新臺幣千元)

First Year Request for Equipment Fund

為有效調整各計畫之設備需求，僅提列本期計畫第一年所需必要儀器設備（含資訊設備及雜項設備），單價逾新臺幣（以下同）500萬元之儀器設備請填寫「[申購單價500萬元以上科學儀器送審表](https://drive.google.com/file/d/1pR_7KExy0atWztBdj5p3OqnaSR2bdOBp/view?usp=sharing)」並附估價單，單價逾30萬元之儀器設備請單獨列項並附估價單。

本次未獲補助及計畫執行期間之下年度設備費需求，可依每年學術處作業時程(另主動通知)專案提出申請，與當年度其他設施計畫之設備費需求一併審議、核定。擬申請的設施得附上有利於該設備申請案的相關說明資料，該設施的維運績效與服務滿意度等，以利審查作業。

Only the first-year request for equipment funds should be submitted with this proposal. For items above 5 million NTD, an additional form is needed. A valid quotation is required for all items above 300K NTD. Equipment fund requests for subsequent years should be submitted separately with requisite supporting documents upon receiving a notification from DAAIS. It will then be reviewed along with equipment requests from all new core facility grant applications for that year.

| 編號 | 儀器設備名稱 | 數量 | 單價 | 總價 | 汰舊或新購之必要性及其優先順序說明\* |
| --- | --- | --- | --- | --- | --- |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
| **合計：** |  |  |

\* 任何有利審查之補充說明資料，含型號功能、使用者需求與使用者委員會之署名支持信、國內外專家學者之推薦採購信、配合款之額度與來源(如有)、效能預先測試初步結果等，皆可以附件方式另提供以利審查。Any supporting document in favor of the request can be provided as Supplemental Info.

3.4 其他需求與支援 Other Supports

(一) 設置或執行單位支援項目 Support provided by Hosting Institute/Center

如需計畫執行單位或設施之設置單位提供配合款及有關設施空間、水電、行政與資訊等支援，請逐條明列於此，並於計畫書首頁取得其單位主管簽章，以示同意。

Describe any matching fund and administrative support that the hosting institute/center has agreed to provide, including but not limited to space, utilities, and IT assistance. This section should be read by the Director of the hosting institute/center, who will also be required to undersign the commitment on the front page of this application.

(二) 其他相關之經費補助 Support from other funding sources

如有其他相關計畫直接提供之經費補助，請說明其性質並於附件補充說明細目與證明。

Describe the source and nature of other funding(s), substantiated by valid documentation.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. 申請人資料 Biographical Sketch and other Information of Applicant(s)

請以下頁提供的格式填寫主持人與每位共同主持人的 (1) 履歷及與計畫相關之論文發表或專利目錄(兩頁為限)；(2) 目前執行中或申請中的計畫清單，並說明是否有相關聯性。此個人資料請另以計畫書附件方式提供。

Use the templates provided on the next pageto prepare the **Biographical Sketch** of each PI and co-PI(s) and to disclose all **Current and Pending Grant** **Support**. The biographical sketch or CV should include the following details in not more than 2 pages total:

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

Please submit this requested personal information as Supplemental Info.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**BIOGRAPHICAL SKETCH**

**NAME:** 中文姓名**：**

**INSTITUTE/RESEARCH CENTER:**

**Current POSITION:**

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

|  |  |  |  |
| --- | --- | --- | --- |
| **INSTITUTION AND LOCATION** | **DEGREE** | **DURATION**MM/YY-MM/YY | **FIELD OF STUDY** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**EMPLOYMENT** (Include postdoctoral training)

|  |  |  |  |
| --- | --- | --- | --- |
| **INSTITUTION AND LOCATION** | **POSITION TITLE** | **DURATION**MM/YY-MM/YY | **FIELD OF STUDY** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

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 2-pages limit. Earlier key publications can also be provided here, or under item III above.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**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 2019-2021). **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:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 |
|  |  |  |
|  |  |  |
|  |  |  |

(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 |
|  |  |  |
|  |  |  |
|  |  |  |

(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.*