秘書處營運計畫預算額度: 5,000萬

### 國家重點領域國際合作聯盟(UAAT) (合計新台幣 2億5,000萬)

海外基地預算額度: 2億 (1億6,000萬用於領域合作、4,000萬用於華語交流)

德州農工大學系統 捷克大學聯盟 九州沖繩開放大學 伊利諾大學系統 領域合作計畫 領域合作計畫 領域合作計畫 中小型合作計劃 4,000萬 3.900萬 2,400萬 4,000萬 3個領域 2個領域 5個領域 第一階段: 每領域1,300萬 每領域1,200萬 每領域800萬 1,740萬 後續階段: 半導體 工程與科技 半導體 2,260萬 國立陽明交通大學 國立清華大學 國立臺北科技大學 人文藝術與社會科技 生命科學/生醫 太空科技 半導體 國立政治大學 國立臺灣大學 國立中央大學 工程 促進人類福祉的 農業 國立中山大學 人工智能和數據 國立中興大學 科學 NT\$ 13M = 國立成功大學 永續發展 2024 Admin & PI Travel: NT\$3M 社會科學與人文 2024/12 – 2025/11 Research: NT\$10M

德州大學系統 領域合作計畫 1,700萬

合作計畫提案領 域尚待確認

華 語 4 千 萬

國立臺灣師範大學

\*\*目前所列預算為暫列,若 各區域/領域合作計畫推動 進度不如預期或有所變動, 或教育部大學聯盟推動政策 有所調整,尚可能作彈性調 整。

\*\*各領域召集學校可另向聯 盟秘書處申請行政業務費

### 國家重點領域國際合作聯盟 (UAAT)計畫提案方式與程序

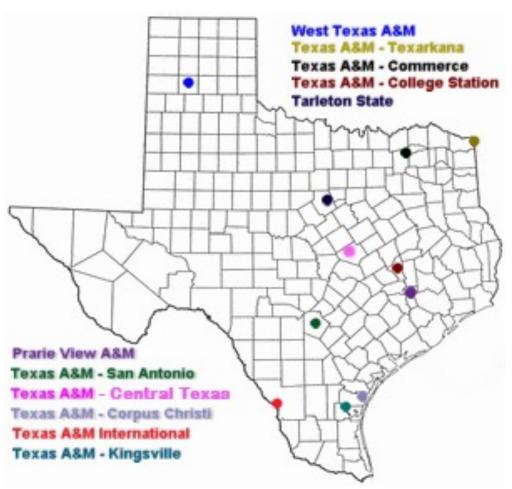
- 1. 目前12所UAAT盟校各自擔任一個領域召集學校
- 2. 每個領域由召集學校公開徵件,每一所盟校都可以申請
- 3. 雖然是不同領域各自徵件, 其實方式相似
- 4. 台大徵求**單一整合型(480萬)**; 其餘11領域應只徵求**子計畫 (200萬)**
- 5. 計畫執行期間: 自113年12月01日至114年11月30日。
- 6. 計畫申請期間
  - 台大: 自113年08月01日至09月20日截止。
  - 其餘領域:自113年08月01日至09月01日截止(各領域須將子計畫整合為單一整合型)
  - 9/30前,所有整合型計畫送到 "教育部專家顧問諮詢審查會議"

## University Academic Alliance of Taiwan (UAAT) Proposal Procedure

- 1. All 12 UAAT Member institutions currently serve as convener for one specific discipline.
- 2. Convening institution for each discipline issues Announcement of Opportunity open to all UAAT institutions.
- 3. Each discipline will have an independent call for proposals, but with a similar overall methodology.
- 4. NTU issuing call for single integrated project (NT\$4.8M); remaining 11 disciplines issuing calls for sub-projects (NT\$2M).
- 5. Period of Execution: 2024/12/01 to 2025/11/30.
- 6. Application Period:
  - NTU: 2024/08/01 to 2024/09/20.
  - Other Disciplines: 2024/08/01 to 2024/09/01 (Sub-projects for each discipline to be integrated into single project by convening institution).
  - All proposals to be submitted to Ministry of Education Professional Consultation and Review Committee before 2024/9/30.



## Texas A&M System (TAMUS)



- One of the 7 state university systems of Texas. Independent and not affiliated with the University of Texas (UT) System.
- Flagship campus at College Station, Texas.
- Budget: \$6.3MStudents: 153,000

### **TAMUS Report**





- TAMUS 剛獲得德州州政府補助在 NASA Johnson Space Center 隔壁成立新的大學太空中心,並邀請招集人參加 2023/11/28 的 Texas A&M Space Exploration Workshop 介紹本聯盟就太空科技方面的主要研發構想,主軸是快速介紹主要題目、背景、以及共同合作可對 TAMUS 產生的好處。
- TAMUS 已針對太空 AI 及太空輻射對電子與生物組織 影響與 UAAT 進行多次接觸與討論。
- UAAT 會員學校中大應邀 TAMUS 加入該校 <u>Invent</u> for the Planet 跨校競賽, 研擬籌劃區域競賽加強雙邊學生交流。
- 2024/9/5, 6 配合駐美大使參訪, UAAT 子計畫 PI 再次拜訪 TAMUS 交流。

## **TAMUS Report**



- TAMUS received support from the State of Texas to build a new university space center adjacent to NASA Johnson Space Center. NCU convener was invited to introduce UAAT at the Texas A&M Space Exploration Workshop on 2023/11/28, as well as to explore topics of common interest and possible benefits to TAMUS.
- TAMUS already in advanced stages of discussion with UAAT on space applications of Al, space radiation effects on electronics and biological organisms.
- UAAT Member NCU invited by TAMUS to join in Invent for the Planet competition as possible venue to enhance student exchanges.
- Planning visit for PIs of nominated sub-projects to TAMUS on 2024/9/5, 6, in conjunction with visit of Taiwan ambassador to the US for additional networking and showcasing of preliminary collaborations.

## 太空科技子計畫徵求條件

- 計畫執行期間: 自113年12月01日至114年11月30日。
- 獲選子計畫提案須由招集學校合併以單一整合型團隊計畫提出。
- · 基本條件: 各子計畫申請案須至少包含2所 UAAT 聯盟成員學校、1位 PI 為TAMUS 成員單位。
  - 每個子計畫 2 名主持人 (PI):
     1名須於計畫執行期間為 UAAT 所屬學校/單位之編制內專任教研人員。
     1名須為 TAMUS編制內專任教研人員。
  - UAAT 及 TAMUS 可另外增加多名 Co-PI,但不接受非以上兩單位之編制人員。
  - 各 PI / Co-PI 需針對子計畫遞交 Letter of Support, 正式同意擔任該子計畫 PI / Co-PI 並定義工作角色。
- 本整合型計畫徵求子計畫,子計畫經費以新台幣 2,000,000 到3,000,000元 為原則。核定計畫案件數與金額,將考量審查結果及整體預算後核定。

# Space Technology Sub-Project Requirements

- Project Execution: 2024/12/01 to 2025/11/30.
- Selected sub-projects to be integrated into single integrated project by convening institution.
- Core Requirements: All sub-project proposals must have PI/Co-PIs representing at least 2 UAAT member institutions, 1 TAMUS PI.
  - 2 PIs:

     1 PI shall be a full time UAAT institution faculty or research staff member.
     1 PI shall be a TAMUS faculty or research staff member.
  - Additional Co-PIs may be added from UAAT and TAMUS. No Co-PIs not from the above institutions are allowed.
  - All Pls / Co-Pls must submit a Letter of Support for their sub-project, formally agreeing to serve as Pl / Co-Pl, while defining their contributions.
- Each sub-project budget is recommended to be in the range of NT\$2M to NT\$3M. The number of sub-projects that will be accepted, as well as their allocated budgets depends upon review results and the overall budget available.

## 太空科技子計畫審查條件

- 評估條件比照計畫書 4. Expected Outcomes of the Integrated Collaboration Project:
  - Joint Research Activity、Students and Faculty Exchange、Internship Programs、Short-Term Courses/Intensive Courses/Workshops & Academic Conferences/Professional Activities、International Industry-Academia Collaboration。
- 除研究合作外,各計畫應包含人才培育及交換之元素(如人才培育及交換之績效指標)。
- 計畫主持人應說明該計畫發展至更大規模計畫之潛力,包含發展前景、藍圖以及預期效益等。
- 包含企業合作夥伴(如企業配合經費、研究R&D之合作、實習等)且具明確規劃之申請案將優先考量。
- 本整合型計畫徵求子計畫,子計畫經費以新台幣 2,000,000 到3,000,000元為原則。核定計畫案件數與金額,將考量審查結果及整體預算後核定。子計畫經審查後將排序。

#### 申請方式:

請詳閱計畫申請書(**附件1**)及國家重點領域國際合作聯盟整合型計畫提案方式與程序(**附件2**)。請各子計畫針對自己子計畫的部分填寫申請書並且與輔助檔案在 08 月 09 日前交給中大窗口 林梅萍 mayping@jupiter.ss.ncu.edu.tw。

## **Space Technology Sub-Project Evaluation Criteria**

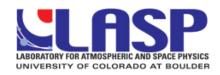
- Points to be evaluated as stipulated in "4. Expected Outcomes of the Integrated Collaboration Project" in proposal template:
  - Joint Research Activity, Students and Faculty Exchange, Internship Programs, Short-Term Courses/Intensive Courses/Workshops & Academic Conferences/Professional Activities, International Industry-Academia Collaboration.
- Besides research, each proposals is expected to include elements covering student training and exchange, as well as corresponding KPIs.
- Sub-project Pls should explain how their proposed sub-project can further be scaled up, including future prospects, roadmap, and expected benefits.
- Sub-projects that include industry partners (such as matching funds, R&D collaborations, internships... etc) shall have a higher priority.
- Each sub-project budget is recommended to be in the range of NT\$2M to NT\$3M. The number of sub-projects that will be accepted, as well as their allocated budgets depends upon review results and the overall budget available.

#### **Application Method:**

Please refer to <u>Proposal Template</u> (<u>Appendix 1</u>) and <u>UAAT Proposal Procedure</u> (<u>Appendix 2</u>). Each subproject should fill in details on the template corresponding to their sub-project and deliver the subproject proposal and supporting documents to the NCU point of contact: 林梅萍 <u>mayping@jupiter.ss.ncu.edu.tw</u> before 2024/08/09 for review.

## **Letter of Support**

- · 各申請案 PI / Co-PI 須至少包含 2 所 UAAT聯盟成員學校、1所TAMUS成員單 位擔任2個 PI 其中一名。
- UAAT 及 TAMUS 各 PI / Co-PI 需針對子計畫遞交 Letter of Support (同意函),正式同意擔任該子計畫 PI 並定義工作角色。
- Letter of Support 内容:
  - 合作子計畫名稱。
  - 在子計畫扮演的角色,提供的資源。
  - 建議簽名,以示真實性。
- 8/9 與子計畫書一同遞交給招集學校。





October 11, 2023

National Central University Taoyuan City, 320317 Taiwan

I acknowledge that I am identified by name as a collaborator to the investigation, entitled

"proposal that is being submitted to the National Science and Technology Council (NSTC) in Taiwan, and that I intend to carry out all responsibilities identified for me in this proposal.

Key aspects of collaboration under this project include:

- Sharing of GNSS orbit ephemeris data from the small satellites for orbit determination and thermos heric neutral density estimation ur oses.
- Development of the CubeSat and integration of the to be provided by you for this spacecraft to be fabricated by
- Sharing of CubeSat and small satellite system and subsystem designs jointly developed under the consortium.
- Sharing of lessons learned and technical knowhow in terms of spacecraft development, testing, and operations as relating to collaborations under the consortium, as well as those supported by this proposal.

I understand that the extent and justification of my participation as stated in this proposal will be considered during peer review in determining in part the merits of this proposal, and I agree that the proposal correctly describes my commitment to the proposed investigation.

Sincerely,



Laboratory of Atmospheric and Space Physics University of Colorado at Boulder 1234 Innovation Drive,

## **Letter of Support**

- The PIs / Co-PIs of each sub-project shall include faculty / research staff from at least 2 UAAT institutions, as well as 1 TAMUS faculty / research staff as one of the 2 PIs.
- Each UAAT and TAMUS PI / Co-PI shall provide a Letter of Support indicating their support for this sub-project, as well as their contributions.
- Letter of Support contents:
  - Name of sub-project.
  - Contributions and role to subproject.
  - Signature highly recommended to indicate authenticity.
- To be delivered along with sub-project proposals on 8/9.





October 11, 2023

National Central University Taoyuan City, 320317 Taiwan

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