

經濟部產業發展署

Industrial Development Administration, MOEA

太空產業供應鏈暨網通產業新星飛揚計畫

**The Plan for Space Industry Supply Chain Development
and Communications Industry Talent Empowerment**

大專校院學生選送及專題輔導

Selection and Program Guidance for Universities & Students

113 年度申請須知

2024 Application Guide

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一、計畫說明 Program Scheme

本計畫透過與產、學、研或公協會等合作，以「產業出題，人才實戰」方式，引導產業就商用 5G 產品、衛星地面終端、太空（衛星）相關研發產品提出專題，推動國內大專校院在學生及應屆畢業生參與產業研發出題，居間協助產業媒合、養成學生具技術知識與研發實戰能力，並辦理技術工作坊及國際培育營等活動，加速人才養成。參考領域包括：

This initiative aims to team up with industry, academia, research institutions, and public associations to foster a collaborative environment where industries propose challenges in the fields of commercial 5G products, satellite ground terminals, and space (satellite)-related research and development projects. The approach is centered around the motto "Industry Leads, Talent Engages," encouraging active participation of students from domestic universities in tackling these challenges. By facilitating industry-academia partnerships, we aim to facilitate matchmaking, equip students with technical know-how, and hone their practical R&D skills. Furthermore, we organize technical workshops and international training camps to accelerate talent development. The referenced fields include:



類別 Category	參考領域 Fields	說明 Description
5G / 3GPP R15 以上 5G/3GPP Release 15 and Beyond	開放網路 Open Radio Access Network (O-RAN)	導入開放網路架構開發之相關產品，如基站(O-CU、O-DU、O-RU)、管理(SMO、RIC)、核網(5GC、RIC 網管)、端到端解決方案等。 Products developed on O-RAN, including base stations (O-CU, O-DU, O-RU), management tools (SMO, RIC), core network components (5GC, RAN Intelligent Controller), and end-to-end solutions, etc.
	系統整合 System Integration	如基站設備的設計、製造及軟體整合、異質網路整合等。 Including the design, manufacturing, and software integration of base station equipment, heterogenous network integration, etc.

	專網終端設備 Private 5G Networks Terminal Equipment	如 5G AMR (無人搬運車)、5G 投影機、5G 監控射影機等。 Including 5G Autonomous Mobile Robot (AMR), 5G projectors, 5G surveillance cameras, etc.
	元件/傳輸 Components/ transmission	如天線、射頻、小基站無線接取、關鍵材料、SDN/NFV 解決方案等。 Including antennas, radio frequency (RF), small cell radio access network, key materials, SDN/NFV solutions, etc.
	應用 Application	如車聯網 / 自動駕駛、5G 智慧物聯網(5G AIoT)、工業物聯網等應用。 Including Internet of vehicles (IoV) / Autonomous Vehicle, 5G Artificial Intelligence of Things (5G AIoT), Industrial Internet of Things (IIoT), etc.
太空/ 低軌道 衛星 Space / LEO Satellite	關鍵零組件 Key Components	如高頻/高速基板(基材)、基頻晶片、波束成形晶片、射頻(如微波/毫米波)相關材料/元件與模組、構裝/製程材料、天線單元材料等。 Including high-frequency/high-speed substrates, baseband chips, beamforming chips, RF (such as microwave / millimeter wave) related materials / components and modules, assembly / process materials, antenna unit materials, etc.
	次系統 Subsystems	如天線次系統及室內外設備連結次系統。 Including antenna subsystems and connections for indoor and outdoor equipment subsystems. 1. 天線次系統：如相位陣列天線(如液晶天線等)、碟型天線、多輸入多輸出系統、天線封裝/模組技術、天線控制單元等。 Antenna subsystem: phased array antennas (liquid crystal antennas), dish antennas, multi-input multi-output (MIMO) systems, Antenna-in-Package (AiP) / module technology, antenna control units, etc. 2. 室內外設備連結次系統：如連接器、電源供應器、路由器/數據機等。 Connections for indoor and outdoor equipment subsystems: connectors, power supplies, routers/modems, etc.

	系統整合終端 System Integrated Terminal	如用戶終端、地面接收站、衛星遙傳追蹤指令站等。 Including user terminals, ground receiver stations, satellite telemetry, tracking and command stations, etc.
	其他 Others	如衛星本體元件、衛星地面設備檢測及創新應用（如家用、車用、航空、海事或其他衛星相關服務）等。 Including satellite bus components, satellite ground equipment testing or innovation applications (such as for household, automotive, aviation, maritime, or other satellite-related services), etc.



一、執行期間 Program Period

研發實戰推動期程：自 113 年 7 月 1 日至 113 年 9 月 30 日止。

Research and development internship period: July 1st to September 30th, 2024.

三、申請資格 Eligibility

(一) 學校資格 Eligibility for University as Recommender

教育部核定之中華民國公私立大專校院（以下簡稱大專校院）得推薦與確認大三（含）以上及碩士（含博士）在學生申請本計畫，並請協助受推薦之僑外生申請工作許可證。

A university recommender must meet all of the following criteria:

1. is an MOE approved college or university located in Taiwan R.O.C.;
2. can recommend students from both undergraduate programs (juniors and above) and graduate programs;
3. can assist international and overseas Chinese students in applying for work permit.

(二) 學生資格 Eligibility for Student Applicant

1. 本國生 Domestic student

- (1) 應具備中華民國國籍。
- (2) 在學一般生：113 學年度第一學期就讀於我國大專校院、不限科系之大三以上學士、碩士及博士在學生，不含在職生。
- (3) 應屆畢業生：112 學年度畢業，且於 113 年 8 月 31 日前取得畢業證書者（男性須為役畢或符合免役資格），不含在職生。

An applicant must meet at least two of the following criteria:

1. must hold Taiwan (R.O.C.) citizenship;
2. is student in the third year of study or higher (including Masters and PhD) in fall semester 2024 (excluding in-service students); no specific major requirement;
3. graduate of 2024, and must obtain graduation certificate by August 31, 2024 (male students must have completed military service or meet exemption criteria), excluding in-service students.

2. 僑外生 Overseas Chinese and International Student

- (1) 具備外籍生或僑生身分並持有外僑居留證者，不包含陸、港、澳生。
- (2) 於申請計畫至參與計畫期間，保持在學學生身分，並於 113 學年度第一學期就讀於我國大專校院、不限科系之大三以上學士、碩士及博士在學生，不含在職生。
- (3) 經錄取之學生須於 113 年 7 月 1 日至 9 月 30 日持有有效工作許可證。工作許可申請方式依各校規定辦理，請洽各校僑外生事務窗口。

An applicant must meet all of the following criteria:

1. is an international or overseas Chinese student who holds valid Alien Resident Card (ARC);

*Mainland China, Hong Kong and Macao students are not eligible



for this program.

2. must maintain full-time student status from the time of application to participation in the program;
3. is student in the third year of study or higher (including Masters and PhD) in fall semester 2024 (excluding in-service students); no specific major requirement;
4. must hold a valid work permit from July 1st to September 30th, 2024.

The application process for work permits should be in accordance with the regulations of each university. Please contact the international student affairs office of each university for details.

四、申請方式 Application

各校有意參加本計畫之學生，自行上傳相關履歷資料。由學校統一窗口確認最終推薦名單。

Applicants must complete application form and submit personal resume on the application portal; the final list of recommendation will be confirmed by the university's designated office.

(一) 學生網路報名：Student Application

- 各校有意參加本計畫之學生，須於 **113 年 5 月 8 日 (三)** 前於本計畫網站填報報名表及自行上傳相關履歷資料。

Applicants must complete application form and submit relevant documents on the application portal before May 8th, 2024.

- 申請網址：Application portals

5G/ 3GPP R15 以上：<https://www.5g-jump.org.tw/>

5G / 3GPP R15 and Beyond: <https://www.5g-jump.org.tw/>

太空/低軌道衛星：<https://www.satcom.org.tw/>

Space / Leo Satellite: <https://www.satcom.org.tw/>

- 逾時、資料不全或資格不符者，均不予受理。

Applications that are overdue, incomplete, or do not meet the qualifications will not be processed.

(二) 各校確認推薦名單：University Recommenders

- 由學校統一窗口（建議由一級單位擔任）於 113 年 5 月 9 日（四）~113 年 5 月 13 日（一），至本計畫網站報名/媒合系統確認最終推薦名單。

University as Recommenders must confirm the final list of recommendation on the portals from May 9th (Thursday) to May 13th (Monday), 2024.

- 報名/媒合系統之帳號與使用方式，將由計畫執行團隊另行通知學校統一窗口。

The account credentials and instructions for the application/matching systems will be communicated separately at a later date.

