

**National Cheng Kung University**  
**Sustainable Humanities and Technology Campus Field Validation Project**  
**Call for Proposals**

**1. Objective:**

NCKU aims to establish a comprehensive sustainable campus based on five key areas: "humanity values, health and well-being, net-zero carbon emissions, intelligent environmental control, and resilient disaster prevention." This is considered a crucial mission for the university to fulfill its social responsibility. The goal of this project is to encourage NCKU's faculty members and researchers to apply sustainability-related courses or technologies developed by them and use the NCKU campus as the field of validation, then promoting and disseminating their applications nationally and internationally.

**2. Project Format and Eligibility:**

- (1) Applicants are required to submit a project proposal in accordance with the prescribed format for project solicitation.
- (2) Participation in the project is restricted to full-time/ project faculty, clinical instructors, full-time/ project research fellow (excluding postdoctoral researchers), and physicians appointed as primary staff at the NCKU hospital.
- (3) Each individual is limited to the concurrent implementation of only one project.
- (4) Individuals who have previously served as members of the NCKU's interdisciplinary integrated sustainable projects team are eligible to apply for participation in this project. However, they must provide an explanation of the relevance and distinctions between the two projects.
- (5) The project, aside from being forward-looking and aligned with one of the NCKU's key areas, is required to provide explanations regarding the current team's technical status, campus validation methods, practical applications, and promotion strategies.
- (6) The validation site must be within the campus or units of National Cheng Kung University.
- (7) Before utilizing the site, the applicant is expected to engage in negotiation with the responsible unit, secure a signed agreement, and adhere to the specified usage regulations. This is essential to garner the unit's support and cooperation.
- (8) It is recommended to refer to "<https://globalgoals.tw/>" and the attached "(Executive Yuan National Sustainable Development Commission) Taiwan Sustainable Development Goals Amendment" for aligning the project with Sustainable Development Goals (SDGs).

**3. Examples of Research Topics**

In accordance with the university's five key areas of focus, "humanity values, health and well-being, net-zero carbon emissions, intelligent environmental control, and resilient disaster prevention," the followings are illustrative project themes:

Objectives	Objectives	Topics
<b>Humanity Values</b>	Enhancing the development of human values, integrating social responsibility, fostering a culture of close interaction between the campus and the community, and promoting inclusive development.	Conservation and maintenance strategies for natural and cultural heritage within NCKU Campus (SDG 3, 9)
		Implementing strategies to promote gender equality issues within NCKU Campus (SDG 4, 5 10)
		Facilitating discussions on end-of-life care through life education courses (SDG 3)
		Establishing a campus art-sharing space to provide a platform for students and faculty to showcase creativity, enhancing aesthetic education (SDG 4)
<b>Health &amp; Well-being</b>	Integrating smart healthcare technologies, with a focus on the physical and mental well-being of teachers and students, to establish a secure and conducive learning and working environment.	Developing a set of strategies to promote the physical and mental well-being of faculty, students, or staff through the utilization of big data analysis. Implementing and verifying these strategies within specific target groups. (SDG 3, 4)
<b>Net Zero Carbon Emissions</b>	Setting a net-zero carbon emissions goal, promoting the resources recycling, and achieving a campus that is low-carbon, environmentally friendly, and sustainable.	Utilizing NCKU as the site to establish effective carbon reduction plans, transforming the campus into a model for a low-carbon environment, and achieving carbon neutrality goals (SDG 9, 11, 13)
		Enhancing campus resource recycling efficiency, improve recycling systems, achieving more effective resource reuse, reducing waste generation, and advocating for a circular economy (SDG 11, 13)
		Conducting in-depth research on soil diseases within the campus, proposing comprehensive strategies for improving soil health, and developing management plans to facilitate vegetation growth and maintain soil ecological balance (SDG 11, 15)
<b>Intelligent Environmental Control</b>	Enhancing intelligent management and control in areas such as stray dog management, lighting control, and soil health to improve campus safety and reduce energy waste.	Developing an intelligent streetlight detection system to enhance campus nighttime safety, ensuring the personal safety of faculty, students, and visitors (SDG 3, 4, 9) Utilizing artificial intelligence technology to address stray dog issues on campus, improving management efficiency, and ensuring both campus safety and community harmony (SDG 3, 4)

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<b>Resilient Disaster Prevention</b>	Enhancing campus disaster preparedness, establishing a disaster management system with community participation to ensure the safety of both the campus and the surrounding community.	Enhancing campus disaster preparedness by proposing comprehensive disaster measures for risks such as fire, earthquake, flooding, etc. Strengthening the campus disaster response system to ensure campus safety. (SDG 3, 6, 9, 11)
<p>Note: The aforementioned examples are provided for reference only. The project team is encouraged to propose solutions for any additional challenges and issues that may be faced within the campus based on their expertise. These solutions should be validated within the campus domain to promote diverse aspects of sustainable development on the campus.</p>		

#### 4. Project Schedule and Funding:

- (1) The project is scheduled for a duration of 2 years (from the approval date to December 31, 114), with an annual budget allocation of up to 2 million New Taiwan Dollars (NTD) per project. The funding is contingent upon annual reviews, modifications in subsidies or project withdrawal may be implemented based on the outcomes of the review.
- (2) The intellectual property rights of the research and development outcomes will belong to National Cheng Kung University.
- (3) The funding subsidy will primarily cover operational expenses (including salaries for part-time assistants), equipment costs, and overseas travel expenses.
- (4) The utilization of project funds must adhere to the "Principles for the Use of Funds in Higher Education Sprout Project" and the annual funding execution guidelines of the university.
- (5) Please note that the specific budget breakdown and guidelines for fund utilization must be outlined in the project proposal, adhering to the university's financial regulations and policies.

#### 5. Implementation Method:

- (1) Submission Period: From January 24, 113, to February 19, 113, until 5:00 PM (based on the online system's submission time; late submissions will not be accepted).
- (2) Application Method: Online application through the form ( <https://forms.gle/3QUp3HAzbNeALugW7> ).
- (3) Application Documents:
  - A. Compose the project proposal following the prescribed format (use either the Chinese or English version). The application content is limited to a total of 10 pages (excluding budget tables, research manpower, references, and attachments).
  - B. Obtain the consent form from the responsible unit for the validation site.
- (4) Responsible Unit: Academic Development Division, Office of Research and Development, National Cheng Kung University.
- (5) Operational Process: Please refer to Appendix One for detailed operational procedures.

## 6. Evaluation Criteria

Project and Description	Weighting
Problem Definition and Forward-Looking Perspective: Does the team clearly defining the issues within the designated campus area, and recognizing their importance and potential future impact?	25%
Team's Relevant Achievements, Technological Readiness, and Project Feasibility: Evaluate the team's current achievements and technological readiness related to the validation site to understand the team's capability in addressing relevant issues and the feasibility of the planned validation at the site.	25%
Alignment with Project Goals and SDGs: Examine the extent to which the project aligns with the university's five key areas and the United Nations Sustainable Development Goals (SDGs). This evaluation aims to ensure that the project is in harmony with the university's commitment to sustainable development and social responsibility.	25%
Performance Indicators, Implementation, and Promotion Strategies: Clearly define the expected indicators of achievement, evaluate the efficacy of practical applications, and the subsequent promotion strategies aimed at maximizing the value of the project.	25%

## 7. Project Outcome Evaluation:

1. The project commences from the approval date and concludes to December 31, 2025. The project review is conducted on an annual basis, and mid-term and final reports are required for each year. Project leaders (and sub-project leaders if any) are expected to actively participate in relevant activities according to the schedule.
2. Outcome Reports: A designated outcome report format will be provided after the project approval.

## 8. Other Notes:

1. Any matters not addressed in this announcement will be adjusted and supplemented based on actual requirements, and further instructions will be provided separately. For official information, kindly refer to the content published on the website of this office.