



國立成功大學研究發展處

Office of Research and Development  
National Cheng Kung University

# Call for proposal 2023 NCKU Sustainable Interdisciplinary Integrated Project

# Outline

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## 2023 NCKU Sustainable Interdisciplinary Integrated Project - Project Objective

This project aims to bolster the research and development capabilities of National Cheng Kung University (NCKU), foster and develop interdisciplinary cooperation, and promote the formation of outstanding cross-college and interdisciplinary research teams.

Aligned with five areas of research related to NCKU development goals, and connected with the United Nations Sustainable Development Goals, the project seeks to advance NCKU's goal of contributing to sustainable development in human society. Additionally, it seeks to increase NCKU's global recognition and impact.

# The United Nations Sustainable Development



## Research Theme Templates

1. R&D of various technologies for energy harvesting, storage, conservation, and carbon reduction (SDG7, 9).
2. Big data analysis and response strategies for climate change affecting ecosystems (SDG13, 14, 15).
3. Rapid screening diagnostic development and disease prevention strategies for easily mutated infectious microorganisms (SDG3, 6).
4. Application of data governance to establish a mechanism for evaluating student learning outcomes and promoting strategies (SDG4, 8, 17).
5. Application of big data analysis, financial technology and digital transformation in the planning and management of sustainable supply chains (SDG12).
6. Research on campus sustainability (SDG4, 6, 9, 11, 13).
7. Strategies for improving human living quality and preserving natural and cultural heritage (SDG11, 3, 9)
8. Strategies for optimizing national governance mechanisms and promoting diverse forms of participation (SDG16, 17)
9. The impact of smart agriculture and fisheries development on economic development (SDG2, 8, 12, 14, 15, 16)

## Area of Research Related to NCKU Development Goals

- **Industrial Innovation and Digitalization**
- **Precision Medicine and Emerging Disease**
- **Energy, Carbon Neutrality, and Green Supply Chain**
- **Food, Safety and Water Resource**
- **Regional Peace and Partnership**

## ◆ Eligibility Requirements

Full-time teaching faculty, clinical faculty, contracted teaching faculty, and researchers (excluding Postdoctoral researchers)

(Applicants must be eligible to apply for NCU projects by holding the status of NCKU staff.)

## ◆ Research Team

1. Proposals must include at least three subprojects.
2. PI and Co-PI should from at least three colleges/ units.
3. At least one Co-PI should hold the rank of associate professor/associate researcher or assistant professor/assistant researcher.

## ◆ Requirement

The project type is a single integrated project with the PI responsible for overall planning, coordination, research progress and outcome of the project.

## ◆ University Level Research Center

### 1. Humanity and Social

Research Center and Humanities and Social Science, Center for Innovative Fintech Business Models

### 2. Science and Engineering

Core Facility Center, Research Center for Energy Technology and Strategy (RCETS), Advanced Optoelectronic Technology Center (AOTC), Medical Device Innovation Center, Sustainable Environment Research Laboratories, Hierarchical Green-Energy Materials Research Center (HI-GEM), Intelligent Manufacturing Research Center (IMRC), Center for Quantum Frontiers of Research & Technology, Wong Tsoo Systems Engineering Research Center, Han-Min Hsia Space Science and Technology Center

### 3. Biology and Biomedicine

University Center for Bioscience and Biotechnology, Center of Infectious Disease and Signaling Research, International Center for Wound Repair and Regeneration, International Center for the Scientific Development of Shrimp Aquaculture, Center of Applied Nanomedicine

<https://en.ord.ncku.edu.tw/article30.html>



### ◆ Academics

<https://www.ncku.edu.tw/p/412-1000-182.php?Lang=en>

### ◆ Administration

<https://www.ncku.edu.tw/p/412-1000-166.php?Lang=en>

### Example:

1. Center of Teacher Education constitutes a department within the Office of Academic Affairs.
2. The Institute of Clinical Medicine operates under the umbrella of the College of Medicine.

## 2023 NCKU Sustainable Interdisciplinary Integrated Project – Matching Support

Please send the title and keywords of your project to the designated contact person ([z11109071@email.ncku.edu.tw](mailto:z11109071@email.ncku.edu.tw)) by 5 PM on February 22nd, 2023 if PI/ Co-PI matching is required. The ORD team would offer support upon request.

### ● Application Timeline & Key Date

1. Application Deadline: Mar 10, 2023, 17:00 TST. No late submissions.
2. Implementation period: 2 years from approval, ends Dec 31, 2024.

### ● How to Apply

1. All applications must be submitted online through the application portal (<https://ordb.ncku.edu.tw/calpa/>) before the submission deadline.
2. Proposal length: Max 8 pages (excl. refs & PI/Co-PI info), content should be smoothly integrated.
3. PI/co-PI info: Limit personal info, pubs, and supplemental materials to 2 pages.

# 2023 NCKU Sustainable Interdisciplinary Integrated Project - Review Process & Focus

- **Review Process**

Academic committee appointed by the President will conduct initial, final, and annual performance reviews.

- **Review Focus**

1. Proposals should be aligned with the United Nations Sustainable Development Goals (SDGs).
2. Proposals that demonstrate forward-thinking, innovative, sustainable, and competitive views are preferred.
3. Encouraged: Mid-career faculty serve as PI to enhance interdisciplinary integration and complementarity in research teams.

- **Approval and Notification**

1. The funding maximum is set at **2 million NT dollars per year per project**.
2. A maximum of **50 projects** will be subsidized per year.
3. Budget items include capital expenditures, operating expenses, salaries for part-time assistants, and overseas travel expenses.
4. Results will be announced by the Research and Development Office after review process.

## ● Outcome Report

1. **Annual outcome report** with a self-assessment of performance covering the goal attainment and results.
2. **An oral presentation** given by the PI and Co-PI at the NCKU Science Day: participation in the entire event will be considered as a key factor in the project evaluation and will be taken into consideration for funding review in the following year.

# 2023 NCKU Sustainable Interdisciplinary Integrated Project

## Additional notes ( 1/2 )

- When conducting the following experiments, it is necessary to attach a consent form for experimental research.
  - Human Studies/ Human Specimen
  - Human Embryo/ Human Embryonic Stem Cell
  - Gene Recombination
  - GMO Field Trial
  - Microbes in Risk Group 2,3,4
  - Animal Studies

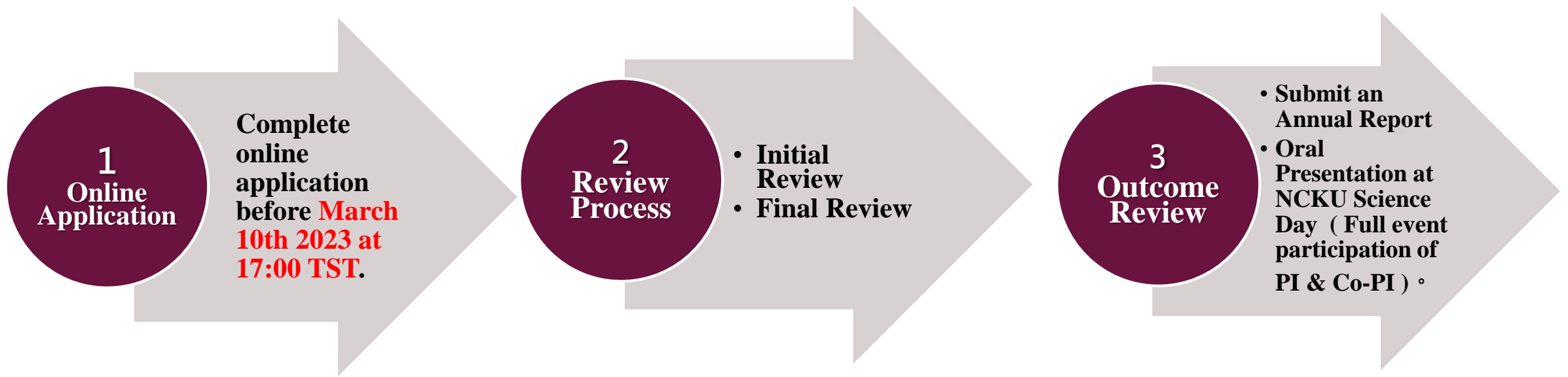
( Please include a description of the 3R ethical principles of animal experiments as an attachment.)

If the consent form is not yet available, please provide proof of submission to the reviewing authority. The consent form can be submitted after project approval.

## 2023 NCKU Sustainable Interdisciplinary Integrated Project Additional notes ( 1/2 )

- The use of project funding must comply with the "**Principles for the Use of Higher Education Sprout Project Funding**" and "**the University guidelines for the annual budget execution of the Higher Education Sprout Project**".

# 2023 NCKU Sustainable Interdisciplinary Integrated Project Application Process





- Q1. If academic or research staff members are employed by multiple units, how should their application status be distinguished?

A1. The main employing unit should determine the applicant's status.

- Q2. Can clinical faculty members employed primarily outside of our institution be eligible to apply?

A2. Applicants must be eligible to apply for NCU projects by holding the status of NCKU staff.

- Q3. Can a university-level research center be considered as an applying unit?

A3. University-level research centers are considered applying units.

(For additional information, please refer to Slide 8)

- Q4. Should the College of Medicine and NCKU Hospital be considered as separate applying units?

A4. The College of Medicine and NCKU Hospital are two separate applying units.

## 2023 NCKU Sustainable Interdisciplinary Integrated Project – FAQ

- Q5. How to identify applicants with researcher status?

A5. Applicants must have the status of either university-employed researchers or contract researchers.

- Q6. Is it possible for an applicant to participate in multiple proposals as a PI or Co-PI?

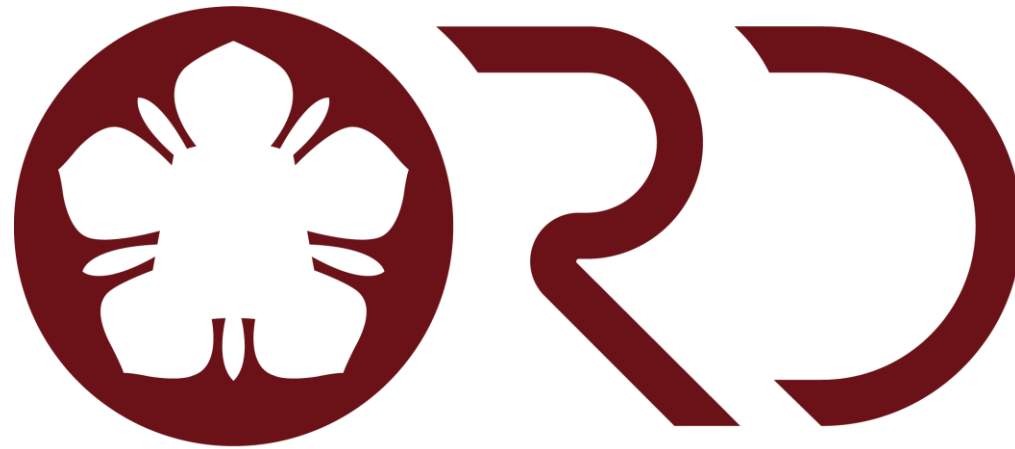
A6. An applicant only can participate in **one** proposal.

- Q7. Is there a limit to the number of sub-projects in a project proposal?

- A7. There is no limit to the number of sub-projects that can be included in a proposal.

- Q8. May a sub-project allowed to have Co-PIs?

A8. Yes, a sub-project may have one or more Co-Pis.



**NCKU**

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