Application Guidelines for FY 2025 of the U.S.-Japan Science and Technology Cooperation Program in High Energy Physics

Notes:

- (1) For FY 2025, the call is limited to the Japanese side only.
- (2) This "Application Guidelines for FY 2025" is an English translation of the official announcement in Japanese. Applicants should observe the accompanying Japanese Application Guidelines

(http://www2.kek.jp/kokusai/us_japan/bosyu/plan25/application_guidelines_jp.pdf). If there should be any differences between the original call for proposals in Japanese and its translation into English, the original Japanese text is valid.

The U.S.-Japan Cooperation Program in High Energy Physics was started from 1979 to strengthen cooperative relations between the U.S. and Japan in research and development in the fields of high energy physics. Today, we are implementing this program under the Agreement between the Government of Japan and the Government of the United States of America on Cooperation in Research and Development in Science and Technology signed on June 20, 1988.

From FY 2017 call onwards, KEK started a joint call with DOE based on the Project Arrangement under the Implementing Arrangement between the Department of Energy of the United States of America and the Ministry of Education, Culture, Sports, Science and Technology of Japan Concerning Cooperation in Research and Development in Energy and Related Field Concerning High Energy Physics signed on October 6, 2015. Under this framework, the contact institutes for applications are KEK for the Japanese side and DOE for the U.S. side.

Furthermore, starting with the FY2021 call, the maximum research period for a proposal will be up to three years in order to promote collaborative research from a long-term perspective.

In FY2025 call, application categories have been created based on the budget request and research period.

KEK invites research proposals to draw up FY 2025 plan of the U.S.-Japan Science and Technology Cooperation Program in High Energy Physics as follows. Please note that the Japanese budget for FY 2025 has not been appropriated yet.

1. Program Objectives

This program solicits proposals with scope of work in the high energy physics that involves substantial collaboration with U.S. investigators.

2. Supported Activities and Research Areas

Proposals submitted to this program should support the current high energy physics experiments or technology development of mutual interest to U.S.-Japan collaborations. Seed funding requests for new ideas to incubate and develop new accelerator and detector system for application in this time scale will also be considered.

The research areas supported by this program include:

- 1) High energy physics experiments
- 2) Development of accelerator technology
- 3) Development of detectors for high-energy physics experiments (including not only sensors but also materials, mechanics, electronics, cryostats, software, and related technologies)
- 4) Workshops, conferences and/or travel support to incubate and develop new accelerator, detector and experimental concepts

3. Application Category (This section applies only for the Japanese side.)

Each research area has two categories to apply as below.

Category A: The budget request for Equipment & Supplies Costs exceeds 5,000kJPY in any Japanese fiscal year during the proposed research period. The maximum project period of the application for this category is 3 years.

Category B: Except for Category A. The maximum project period of the application for this category is 2 years.

For FY 2025 call, a corresponding U.S. application is not required.

4. Eligibility

Japanese eligible applicants are researchers who belong to and are employed at the Japanese national, public and private universities or other institutions funded by the Ministry of Education, Culture, Sports, Science and Technology (MEXT). The Japanese

Principal Investigator should be the applicant for the Japanese side.

5. Grant Period

Category A is up to three fiscal years, Category B is up to two fiscal years. Continuation funding (funding for the second and subsequent budget periods) is contingent on (1) availability of KEK funds; (2) progress towards meeting the objectives of the approved proposal; (3) submission of required reports; and (4) compliance with the terms and conditions of the award.

Proposals seeking for renewal rewards for the same or similar scopes of work may be submitted in future calls.

6. Supporting Expenses for the Japanese side

Equipment &	The cost to purchase necessary equipment and supplies for		
Supplies Cost	proposed research		
	The rental car cost and/or the registration fee for		
	conference/workshop etc. are also subject to this category.		
Travel Cost	Travel cost from Japan to the U. S. only		
	The supported duration of the travel is until March 10 th , 2026.		
	This budget cannot be allowed for any travel to invite the U.S.		
	researchers to Japan.		

Please note;

- The personnel expenses or honorarium is not subject to this fund.
- To deliver the purchased items to the universities or institutions of collaboration members other than KEK, the necessary procurement procedures outlined on the KEK website for this program shall be completed before placing a purchase order. The collaboration member shall be responsible for the acceptance inspection of each item purchased with this fund when it is delivered to their own university or institution. The acceptance inspection report shall be submitted to KEK within 5 working days.
- All procurement of this fund should be carried out at KEK in principle. However, when deemed necessary, the procurement can be conducted at the U.S. university or institution with which the collaboration member is affiliated. The collaboration member at such university or institution in U.S. should be responsible for coordinating this fund among the Japanese Principal Investigator, his/her own university or institution, and KEK, for not only

- technical issues but also administrative and financial matters.
- The remaining balance of each project at the end of fiscal year cannot be carried over to the next year unless KEK agrees in advance.

7. Review criteria

- Scientific and/or technical merit of the project
 - What is the scientific innovation of the proposed research?
 - · What is the likelihood of achieving valuable results?
 - How might the results of the proposed work impact the direction, progress, and thinking in relevant scientific fields of research?
 - How does the proposed work compare with other efforts in its field, both in terms of scientific and/or technical merit and originality?
 - What is the likelihood of achieving influential results?
- Appropriateness of the proposed method or approach
 - Does the proposed effort employ innovative concepts or methods?
 - How logical and feasible are the approaches?
 - Are the conceptual framework, methods, and analyses well justified, adequately developed, and likely to lead to scientifically valid conclusions?
 - Does the applicant recognize significant potential problems and consider alternative strategies?
- Competency of applicant's personnel and adequacy of proposed resources
 - Does the proposed work take advantage of unique facilities and capabilities?
 - What is the past performance of the team?
 - Is the lead institution proposing to perform a greater portion of the scientific and technical work than any other team member?
 - How well qualified is the team to carry out the proposed work?
 - Are the environment and facilities adequate for performing the proposed effort?
- Reasonableness and appropriateness of the proposed budget
 - Are the proposed budget and staffing levels adequate to carry out the proposed work?
 - Is the budget reasonable and appropriate for the scope?
- Balance of responsibilities between the U.S. and Japanese components of the bilateral collaboration.
 - Are the responsibilities assigned to the U.S. and Japanese sides of the collaboration well balanced, i.e., are the scopes of work of comparable

- magnitude, with significant tasks undertaken by both sides?
- Are the contributions by each side of the collaboration synergistic? Are any unique capabilities of either or both sides being utilized to make the proposed scope of work more compelling?

In addition to the above-mentioned criteria, the follows will be considered in the selection process in Japan:

- Conformity of the proposed scope of work with the research areas described in Section 1.
- Necessity of the collaboration between U.S. and Japan
- Rationality of the proposal that does not have a corresponding U.S. application (updated on Nov. 19, 2024)

8. Proposal and submission

Proposal contents

The proposal should consist of the following sections:

- A Cover Page (KEK specified form in the excel format)
- Abstract (one page limit)
- Project Narrative (for Category A: 8 page limit, for Category B: 5 page limit)
 This section should include the Member List Table and the Budget
 Request Table which are counted in the project narrative page limitation.
- Budget Justification (KEK specified form)
- Budget planning (KEK specified form)
- External funding list (KEK specified form)

The supplementary documents can be attached to the proposal, if necessary. Unless otherwise specified in the forms, proposals should be written in English.

• Proposal forms

KEK forms corresponding to all sections mentioned above are available at the following website.

http://www2.kek.jp/kokusai/us_japan/document/joint_call/2025/forms.zip

Submission

Japanese applicants should send the proposal to the following KEK contact by email. A single email size should be less than 2MB. Please contact KEK

beforehand if the size exceeds 2MB.

<Contact information for the submission of proposals>
KEK International Affairs Division
Email koryu1@mail.kek.jp

< Submission due date>
January 15th, 2025 at 1:00 PM JST

9. Selection process

The selection is conducted at the Research Planning Committee of KEK as described below.

	Proposals for	Proposals for
	Category A	Category B
Document screening	Required	Required
Oral Presentation (on Feb. 4^{th} - 5^{th} , $2025(TBC)$)	Required	Not required

Notification of the results will be sent after the Joint Committee of the U.S.-Japan Science and Technology Cooperation Program in High Energy Physics, which is currently scheduled between May 12th and 14th, 2025.

10. Research report

 Japanese Principal Investigators are required to make a progress report at the Research Planning Committee of KEK.

<Research Planning Committee of KEK for FY 2024 progress reports> Date: February 4th – 5th, 2025 (TBC)

• Japanese or U.S. Principal Investigators of the selected projects may be requested to make a progress report at the Joint Committee of the U.S.-Japan Science and Technology Cooperation Program in High Energy Physics.

<Joint Committee for FY 2024 progress reports>
Date: May 12th – 14th, 2025 (TBC)

- Japanese Principal Investigators are requested to make a report for the KEK review committee of the U.S.-Japan Science and Technology Cooperation Program in High Energy Physics which is held periodically.
- Each report or publication resulting from this Program should include the notice

of the support of the "U.S.-Japan Science and Technology Cooperation Program in High Energy Physics".

11. Important notes

Please be sure to handle research data and intellectual property rights properly and follow the safety rules of the partner institution(s) in the collaborative activities.

12. KEK contact information

For questions about the contents of applications

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For forms and application process

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