

FY2015

**Science and Technology Research Partnership
for Sustainable Development (SATREPS)**

International collaborative research program

<Infectious Diseases Control Field>

Invitation for Research Proposals

This Application Guideline is prepared for researchers who belong to Japanese research institutions/universities in Japan.

Researchers in other countries should consult their national government agency responsible for Official Development Assistance (ODA) technical cooperation, the Embassy of Japan, or JICA offices in their resident countries.

Application Guideline (Provisional Translation)



**Japan Science and Technology Agency (JST)
Research Partnership for Sustainable Development Group
Department of International Affairs
October, 2014**

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Notes for FY2015 Research Proposals

This invitation for research proposals is for proposals that will be implemented under the government's FY2015 budget, but submitted and selected before the budget is finalized. Moreover, the SATREPS (Science and Technology Research Partnership for Sustainable Development) program is linked with the official development assistance (ODA) program, and requires time for coordination with institutions in the counterpart country. For these reasons, in order to start the research projects as soon as possible, the process needs to start before the budget is approved. In consequence, when the budget is finally approved, details and amounts may change, which could potentially affect the fields of research, contract research expenses, and number of projects selected. It may also be necessary to request additional documentation following budget approval.

Changes in budget-related information will be posted on the following website, which should be checked occasionally. After proposals have been submitted, applicants can be notified by email when necessary.

<http://www.jst.go.jp/global/koubo.html> (Japanese)

<http://www.jst.go.jp/global/english/koubo.html> (English)

1. How to Apply

FY2015 Research Proposals must be submitted via e-Rad, the Cross-ministerial R&D Management System.

To use e-Rad, researchers who are affiliated with a research institution need to check that their institution has been registered on e-Rad, and that the researcher's information has also been registered on e-Rad by the institution's administrative contact. Researchers who are not affiliated with a research institution need to register their researcher information on e-Rad in advance.

Cross-ministerial R&D Management System (e-Rad) Portal Site

<http://www.e-rad.go.jp/> (Japanese)

Deadline for submission of research proposals:

12:00 noon (Japan time) on Friday November 21, 2014

2. Submission of request for ODA technical cooperation

The SATREPS program is linked with ODA projects. In addition to submitting a research proposal to the Japan Science and Technology Agency (JST), it is necessary to liaise sufficiently with the researchers in the other country on the details of the joint research, and is also necessary that the counterpart research institute submits an official request for ODA technical cooperation to Japan's Ministry of Foreign Affairs (MOFA) via the ministry or agency in the recipient country responsible for ODA and the local Japanese embassy.

In the Infectious Diseases Control field, after AMED—the Japan Agency for Medical Research and Development—is launched in FY2015, AMED is supposed to take over the role of JST described in this application guideline. However, the procedure between developing countries and Japan remains the same as in earlier years. Note that any ODA applications in the Infectious Diseases Control field made to the Japanese government by partner countries are subject to the same deadline (12:00 noon (Japan time) on Monday October 27, 2014) as applications in the other fields. (This point was noted in the application guideline for the other fields). If the counterpart government does not request a technical cooperation project by the deadline, a research proposal submitted in Japan will be considered incomplete and not go through the selection process.

I. The Science and Technology Research Partnership for Sustainable Development program (SATREPS program)

1. Objective of the research program

The SATREPS (Science and Technology Research Partnership for Sustainable Development) program is a collaboration between two Japanese government agencies: the Japan Science and Technology Agency (JST) and the Japan International Cooperation Agency (JICA). Based on the needs of developing countries, JST and JICA cooperate to promote international joint research targeting global issues¹ with an objective of future utilization of research outcomes². Implemented through collaboration with Official Development Assistance (ODA), the aim of the program is to acquire new knowledge and technology that lead to the resolution of global issues and the advance of science and technology, and through this process, to create innovations. International joint research under this program also aims to enhance the research and development capabilities of developing countries, and helps create sustainable research systems able to address and resolve issues.

2. General description of the research program

(1) Background to the program

There is a need for joint research and capacity building of research institutions based on the requirements of developing countries, as a means by which the promotion of science & technology and the training and development of human resources can boost each other. Japan recognized this need, and has given it the status of a key part in one of its major policies. ("Toward the Reinforcement of Science and Technology Diplomacy," May 19, 2008)

In this context, Japan's Ministry of Education, Culture, Sports, Science and Technology (MEXT) and Ministry of Foreign Affairs (MOFA) implemented the SATREPS program in 2008 by creating a close tie between science & technology and official development aid, enabling the research institutions of Japan and developing countries to take part in international joint research that can contribute to the resolution of global issues.

(2) Program status

Japan's Fourth Science and Technology Basic Plan (approved by the Japanese Cabinet in August 2011) includes Japan's aims regarding its role in dealing with global issues. It states how the country will take a leading role in working to resolve critical issues occurring on a global scale, including global warming, large-scale natural disasters, and emerging and re-emerging infectious diseases, and how it will actively work through international coordination and cooperation, making use of its experience and achievements, the intellectual property that it has developed, and its creativity. Specifically, Japan will form partnerships with and cooperate with universities, public research institutions, business, and also with foreign and international organizations to work on research and development to find solutions to global issues. In addition, it needs to encourage the deployment of the research outcomes in Japan and in other areas around the world, and take a lead in securing the agreement of the international community. At the same time as tackling global issues, in order to support self-reliant, sustainable development in developing countries in areas such as Asia and Africa, Japan needs to provide assistance in terms of applying and transferring technology from Japan, and there needs to be collaboration between universities and research institutions in Japan and such developing countries, conducting joint research with the aim of developing and utilizing new technologies, and gaining new knowledge, which will also improve overall capabilities at universities and research institutions in the collaborating country and raise science and technology standards in both countries.

The Fourth Basic Plan states that in order to overcome the serious issues facing Japan or the whole world, the government should promote research and development (R&D) and other activities comprehensively and

¹ Global issues: Issues that are difficult to resolve by a single country or region acting on its own and that need to be handled by the international community as a whole

² Utilization of research outcomes: The research projects should lead to future social and economic benefits, achieved by using newly obtained knowledge and technology to enhance government services or to develop products that can be deployed in the market.

systematically with the participation of various organizations in industry, academia and government through a cross-sectional approach and by coordinating activities developed by each of these organizations, including basic research, application, development, industrialization, and commercialization, so that such efforts lead to new value creation.

Implementation of the government's basic plan is strongly promoting career development, and training personnel to ensure the availability of human resources capable of working in a range of fields both in Japan and overseas, of playing a front-line role in the world, and of leading the next generation. Japan states in the plan that it will step up initiatives that will enable the leaders of the next generation to launch themselves into the world of science and technology innovation full of dreams and hopes for the future. Through international collaborative research, Japan is also able to develop its own human resources for dealing with globalization.

The FY2015 invitation for research proposals seeks projects that reflect these policies while meeting the aims of the SATREPS program.

(3) SATREPS program structure

The SATREPS program structure is shown in Figure 1. Launched by JST in cooperation with JICA, SATREPS promotes international joint research between Japan and developing countries. Through collaboration with research institutions in developing countries, it aims to facilitate the acquisition of new knowledge and technology that can lead to the resolution of global issues and the advancement of science and technology. Under this program, JST (which possesses expertise in funding research projects in Japan) provides support for research expenses in Japan and elsewhere (but not in the partner country), while JICA (which operates technical cooperation projects in developing countries) bears the expenses in the partner country, which is the recipient country under the ODA technical cooperation framework. Management of R&D for international joint research as a whole is conducted cooperatively between JICA and JST. It is expected that the promotion of international joint research activities under this program will enable Japanese research institutions to conduct research more effectively in fields and targets where it is advantageous to implement the research in developing countries. Meanwhile, it is hoped that for research institutions in the developing countries (primarily universities and research institutions focusing on activities for public benefit, but excluding those related to military affairs), the establishment of research center facilities and the development of human resources through joint research activities will make it possible to develop self-reliant, sustainable research systems.

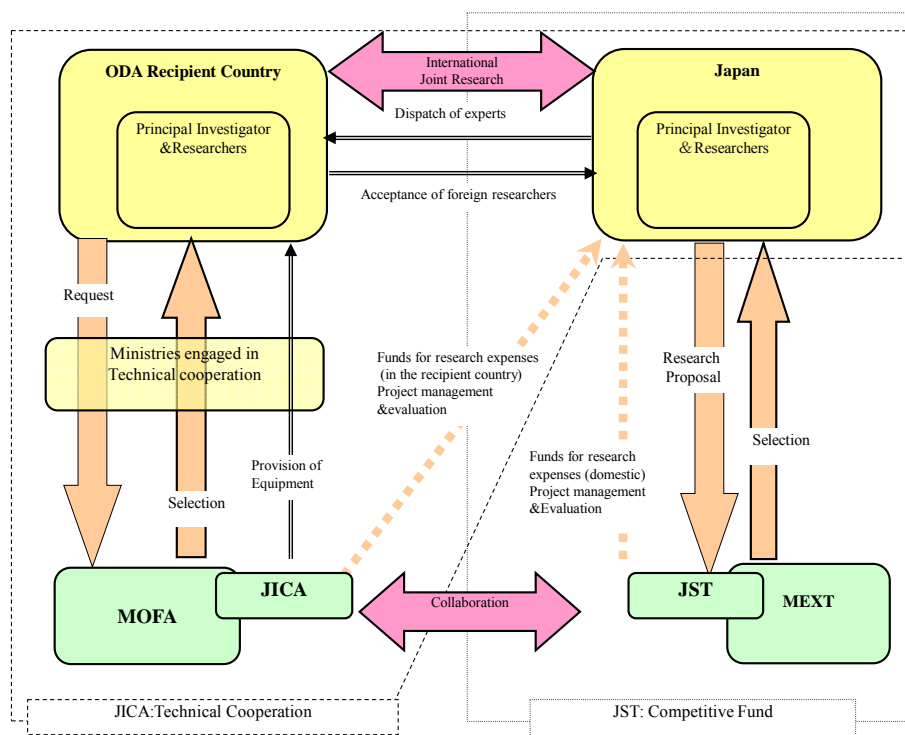


Figure 1. SATREPS Program Structure

(4) SATREPS program main flow

a) Setting research areas, and inviting proposals and applications

The Japanese government (the Ministry of Education, Culture, Sports, Science and Technology, or MEXT) identifies fields of particular importance in resolving global issues and designates them as targets for research promotion under this program. Based on this, JST appoints a program director (PD) with overall responsibility for all research fields and management of the program, and program officers (PO) each with responsibility for a single, more specific research area in which they have expertise.

JST invites researchers at universities and research institutes in Japan to submit research proposals in each research area. Decisions on which research projects are to be selected are made by a screening committee comprising POs and external reviewers.

While JST selects proposals, requests are received from developing countries for ODA technical cooperation for international joint research, and MOFA reviews these requests in conjunction with JICA in Japan. Therefore, it is essential for the principal investigator in Japan to coordinate with researchers in the ODA recipient country in order to confirm the details of the joint research when making an application to JST. It is a requirement that official requests for ODA technical cooperation be submitted by the research institution in the recipient country to MOFA by the specified deadline, via the ministry or agency in the recipient country responsible for ODA and the local Japanese embassy.

b) Research project selection by JST in Japan and ODA technical cooperation decisions by MOFA/JICA

The selection process for research projects at JST and the screening process for ODA technical cooperation at MOFA/JICA are interlinked. Both applications, one to JST by the Japanese principal investigator and one for ODA technical cooperation, have to be approved in order for the research project to be provisionally selected for the program. MOFA notifies the prospective recipient country of this decision. (See Figure 2.)

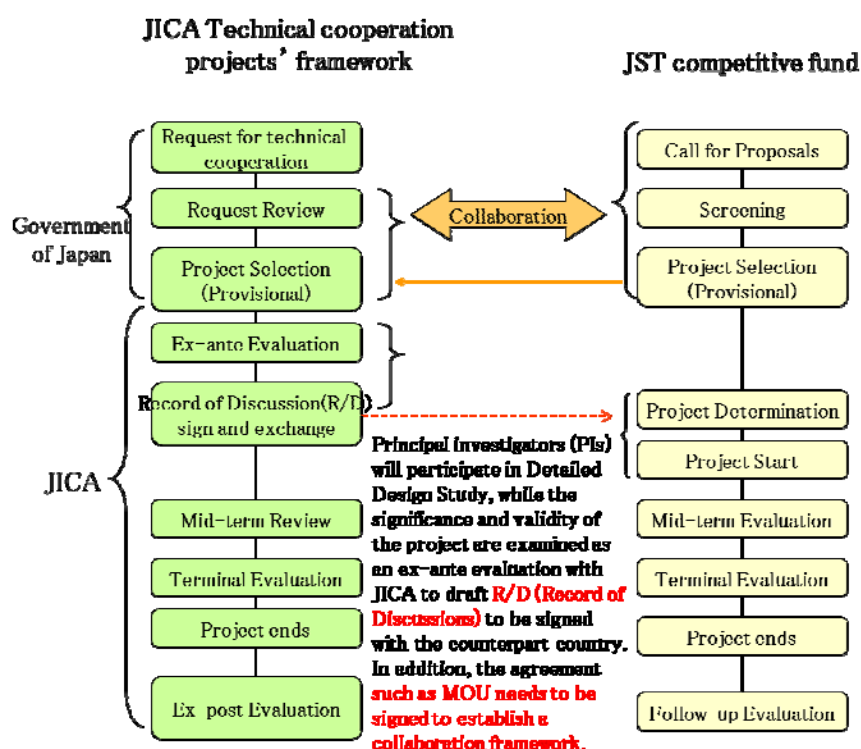


Figure 2. SATREPS Program Flow

c) Preparations for implementing selected projects

To implement the international joint research, a Record of Discussions (R/D) must be signed by the ODA recipient country and JICA to confirm that they agree on the details of the ODA technical cooperation. In addition, a Memorandum of Understanding (MOU) or similar document about the joint research, of which

details shall match the R/D and JST's Contract Research Agreement, must also be signed between the research institutions (parties concerned). Because of this requirement, after receiving notification of provisional selection, the principal investigator and other researchers are requested to work towards the prompt signing of these documents.

After giving notification that a research project has been provisionally approved, JST firstly concludes a Provisional Research Expenses Contract with the principal investigator's institution in Japan. This enables JST to make research funds available to Japanese researchers even before the R/D is signed, in order for international joint research to start as soon as possible after the R/D is signed. Such expenses shall be limited to research expenses incurred in Japan when making preparations for the joint research.

In order to confirm the background and details of the ODA technical cooperation application and discuss details of the joint research, JICA sends an investigation team, comprising of the principal investigator in Japan and other members, to the prospective recipient country. The investigation team performs a Detailed Design (D/D) study and summarizes the results of discussions in a Minutes of Meeting (M/M) document, signed by JICA and the recipient country. JICA shall then create an R/D based on the details of the M/M. Once the R/D is signed by the director of the JICA overseas office and a representative in the developing country, the ODA technical cooperation project can begin.

However, the signing of the R/D can take a long time, and may not even be completed before the end of the year in which the project would be implemented (the end of FY2015). Even if a research project has been selected, if the R/D is not likely to be signed in the near future, or if there are other reasons³ such as deteriorating public security, preparations for implementing the project may be halted part way through, and circumstances may make it impossible for the research to be implemented. Please note that if it becomes impossible for the R/D to be signed, the selected research project cannot be implemented, and from that point, JST shall no longer provide research funding.

d) Implementation of the international joint research

In order to implement the international joint research as a formal SATREPS project, the principal investigator and other researchers shall act in accordance with a contract (Contract Research Agreement) signed with JST and contracts signed with JICA (Agreement and project contract⁴). The principal investigator shall be responsible for the research project and for coordinating the running and management of the project as a whole. It is not essential for the Japanese principal investigator to be permanently stationed in the partner country for the period of the joint research, but to ensure that the research proceeds smoothly, it is desirable that at least one member of the Japanese research team be stationed there as permanently as possible as an expert (designated under this program as a "dispatch of overseas researchers (Japanese researchers) for overseas research")^{5 6}.

e) Human resource development

- Human resource development through the Japanese Government (MEXT) Scholarship Program

³ Potential reasons include unavoidable circumstances such as natural disasters or decisions made by the government of the prospective recipient, and circumstances such as improper use of research funds or improper research activities.

⁴ The Agreement (Agreement regarding the implementation of technical cooperation under the framework of SATREPS) is a comprehensive document stipulating the rights and obligations of JICA and the principal investigator's institution. JICA and the principal investigator's institution shall conclude the Agreement when the R/D for the institute's first project is signed. In addition, JICA and the principal investigator's institution shall clarify the expenses that JICA will bear, and shall sign an Agreement and project contract containing an estimate of these expenses and details of accounting procedures, for reference by either party.

⁵ An overseas researcher dispatched to the developing country does not necessarily have to be the principal investigator. Other members of the Japanese research team necessary for the joint development are eligible. However, postgraduate and other students are not eligible to be sent under the "dispatch of overseas researchers (Japanese researchers) for overseas research" designation.

⁶ In technical cooperation projects, JICA recruits project coordinators through a transparent recruiting process and stations them in the ODA recipient country to provide support to experts and manage local operating expenses or to support procurement of machinery and equipment by the local JICA office. JICA similarly stations local project coordinators for SATREPS projects. Such staff cannot simultaneously participate in research work.

Since FY 2010, MEXT has a “SATREPS Section” within its Japanese government scholarship program (University Recommendation) for SATREPS projects. The aim of the SATREPS Section is to facilitate the development of young researchers with the potential to be future key players in relevant research in their own countries by studying or conducting research as a research student and taking a doctorate at Japanese institution. Invitation for this Japanese government scholarship program is implemented by MEXT, and scholarship is budgeted separately from SATREPS. For more details, please refer to the Japanese government (MEXT) scholarship program website. Please note that this scholarship program can be altered depending on the final budget.

Japanese government (MEXT/Monbukagakusho) scholarship program
http://www.mext.go.jp/a_menu/koutou/ryugaku/06032818.htm (Japanese)
<http://www.studyjapan.go.jp/en/toj/toj0302e.html> (English)

- Acceptance of foreign researchers

There is also the “acceptance of trainees” system (which is called “acceptance of foreign researchers” in the SATREPS program) for inviting researchers from the ODA recipient country to Japan using the ODA budget. The researchers are invited from the research institution carrying out the international joint research in the developing country to Japan, where they carry out research. It is hoped that such researchers will play a long-term key role at their research institution after their return from Japan. They are considered as indispensable for promoting the joint research. Please note that the acceptance of foreign researchers under this system is normally conditional on the researcher's period of research in Japan terminating within the period for joint research specified in the R/D.

- Helping young post-doctoral researchers to secure varied career paths

When a proposal is selected as a SATREPS project, if young post-doctoral researchers are employed to participate in the project using public funds (competitive funding and other project research funding, education and research funding through open funding schemes for universities), there is a requirement to provide active assistance to such researchers to help them to secure varied career paths. This requirement is based on a policy document issued on December 20, 2011 by the Council for Science and Technology's Committee on Human Resources concerning basic policy for securing varied career paths for young post-doctoral researchers employed using public funds from MEXT.

* Employment of research assistants (RA)

The 4th Science and Technology Basic Plan aims to provide more comprehensive economic support in the form of funding fellowships, teaching assistants (TA), and research assistants (RA) so that bright students can feel secure in aiming for graduate school. This is an attempt to accelerate the 3rd Science and Technology Basic Plan's aim to "enable 20 percent of doctoral students (latter stage) to receive an amount equivalent to their living expenses."

Based on this principle, the SATREPS program recommends that when latter stage doctoral students are employed as research assistants on a SATREPS project, they are paid a salary level equivalent to living costs to ensure that they do not need to be concerned about the economic cost of participating.

The following considerations apply when employing a research assistant:

- Assumed to be a doctoral student (latter stage).
- Recommended payment is in the order of 2 million yen per year or 170,000 yen per month. Payments of this level can be handled as research expenses. Take care, however to avoid situations that could be interpreted as the payment being charged to SATREPS but used for simply studying or for research work other than that of the SATREPS program, which would be regarded as inappropriate (fraudulent) use of funds.
- Decisions regarding actual payment amounts and payment periods, etc. should be made by the research institution. JST does not place restrictions on payments above or below the recommended level.
- When research assistants are receiving payments from scholarship loans or other systems, there should be no impediment to the objectives of the scholarship or the research institution that the assistant is affiliated to. JST does not, however, place any systematic restriction on overlapping payments.

It is desirable that the effective use of all of these programs will have a synergistic effect, in terms of developing the skills of key personnel and young researchers promoting research in the developing country and enhancing systems for ongoing international joint research with Japan.

References: Major science & technology policy and other documents concerning SATREPS

Toward the Reinforcement of S&T Diplomacy (May 19, 2008)

http://www8.cao.go.jp/cstp/english/doc/s_and_t_diplomacy/20080519_tow_the_reinforcement_of.pdf

Task Force Report on Science and Technology Diplomacy (February 2010, Council for Science and Technology Policy; in Japanese)

<http://www8.cao.go.jp/cstp/sonota/kagigaiko/8kai/siryo1-1.pdf>

The 4th Science and Technology Basic Plan (August 19, 2011, Cabinet decision; in Japanese)

<http://www8.cao.go.jp/cstp/kihonkeikaku/4honbun.pdf>

FY2013 Action Plan for the Implementation of Important Science and Technology Policy Measures (July 19, 2012, Minister of State for Science and Technology Policy, Diet members with special knowledge of the Council for Science and Technology Policy; in Japanese)

http://www8.cao.go.jp/cstp/budget/h25ap/h25ap_honbun.pdf

Policy for the Allocation of Resources, Including the Science and Technology Budget (July 17, 2014, Council for Science and Technology Policy; in Japanese)

<http://www8.cao.go.jp/cstp/budget/houshin.html>

Comprehensive Strategy on Science, Technology and Innovation (June 24, 2014, Cabinet Decision)

<http://www8.cao.go.jp/cstp/sogosenryaku/2014/honbun2014.pdf> (Japanese)

<http://www8.cao.go.jp/cstp/english/> (English; may not include the latest Japanese version)

Basic Plan on Ocean Policy (April 26, 2013, Cabinet decision, in Japanese)

<http://www.kantei.go.jp/jp/singi/kaiyou/kihonkeikaku/130426kihonkeikaku.pdf>

Previous Basic Plan on Ocean Policy (March, 2008, Cabinet decision)

http://www.kantei.go.jp/jp/singi/kaiyou/kihonkeikaku/080318kihonkeikaku_E.pdf

Basic Plan on Space Policy (January 25, 2013, Strategic Headquarters for Space Policy)

<http://www8.cao.go.jp/space/plan/plan-eng.pdf>

II. Guidance for Application and the Project Selection Process

1. Outline of the application and project selection process

(1) Research fields and areas

Research proposals are currently invited in the following research field, covering a single research area (For the other fields and areas, the invitation for applications was issued on September 11, 2014).

Research fields (number of research areas)	Cooperation request from developing country	Research period	Research budget from JST
Infectious Diseases Control (1 research area)	Compulsory	3 to 5 years (after provisional period*)	Approx. ¥36M/year (including indirect expenses) (Max. ¥180 M in total for a 5-year project)

* The provisional period is the period before the R/D and MOU are signed and the project officially starts.

In the Infectious Diseases Control field, after AMED—the Japan Agency for Medical Research and Development—is launched in FY2015, AMED is supposed to take over the role of JST described in this application guideline. However, the procedure between developing countries and Japan remains the same as in earlier years. Note that any ODA applications in the Infectious Diseases Control field made to the Japanese government by partner countries are subject to the same deadline (12:00 noon (Japan time) on Monday October 27, 2014) as applications in the other fields. (This point was noted in the application guideline for the other fields). If the counterpart government does not request a technical cooperation project by the deadline, a research proposal submitted in Japan will be considered incomplete and not go through the selection process.

[See: 5., 11., 12.]

The research budget from JST is tentative, and may change due to budgetary considerations.

(2) Application requirements

The applicant must be affiliated with a research institution in Japan, must be able to take responsibility as principal investigator for the international joint research, and must be able to be engaged in the international joint research from beginning to end.

[See: 8.]

(3) Application deadline for research proposals

12:00 noon (Japan time) on Friday November 21, 2014 (applications received after the deadline will not be accepted)

※Deadline for ODA applications to reach MOFA is the same as for the other fields and areas (12:00 noon (Japan time) on Monday October 27, 2014).

[See: 2.]

2. Schedule for application and selection

The schedule for applications and selection is set out below. The applications start date and deadline are fixed, but the other dates are provisional. They may change without notification. Please see the program website for up-to-date schedule details.

SATREPS research proposals website
<http://www.jst.go.jp/global/english/koubo.html>

Applications start date (ODA)	Thursday September 11, 2014
Applications start date (Research proposals)	Tuesday October 21, 2014
Applications deadline (Deadline for ODA applications to reach MOFA) ⁷	12:00 noon (Japan time) on Monday October 27, 2014 (applications received after the deadline will not be accepted)
Applications deadline (Deadline for research proposals applications via e-Rad)	12:00 noon (Japan time) on Friday November 21, 2014 (applications received after the deadline will not be accepted)
Notification of document screening results	Mid February 2015
Interviewing for selection	Early March 2015
Provisional selection and notification ⁸	April 2015 onwards, after JST research budget approval
Start of research	April 2015 or later, following signing of the R/D

3. Countries eligible for the SATREPS program

Please refer to Appendix 1 for the countries that are eligible to request ODA.

[See: Appendix 1]

4. How to apply

Forms for research proposals for FY2015 (listed in Table 1 below) shall be downloaded from the SATREPS website below, filled in, and then submitted using e-Rad. Submit as a single file, utilizing PDF etc. as the file format where necessary. Refer to the guidelines for the target outcomes sheet of Form 2 and to the e-Rad manual (additional information for the use of researchers submitting SATREPS proposals) (only in Japanese).

<http://www.jst.go.jp/global/english/koubo.html> (English, with limited information)

<http://www.jst.go.jp/global/koubo.html> (Japanese, with complete information)

⁷ MOFA must receive an application for ODA from the government of the prospective recipient country by the deadline. This is one of the conditions for selection.

⁸ Around the same time as the provisional selection of research projects in Japan, notification regarding selections for the corresponding ODA technical cooperation will be made to applicant governments. Subsequently, when the R/D is signed between JICA and the counterpart, the research project will be formally approved for awarding, and international joint research will begin. Selection of the research project in Japan will be announced to the public by JST and JICA at an appropriate time after notifying the principal investigator of provisional selection.

Form 1	Proposal
Form 2	Research Theme Concept
Form 3	Japanese Institution Implementation Structure
Form 4	Counterpart Institution Implementation Structure
Form 5	Research Expense Plan
Form 6	Grants Received Through Other Programs
Form 7	Contact Information for PI and Affiliated Institution
Form 8	Written Approval from Institution Director
Form 9	Plans by Private-Sector Corporations, etc
Form 10	Proposal Coordination Status

Table 1. Forms for Research Proposal Applications

5. Research fields and areas in which proposals are invited

An applicant can file only one research proposal as principal investigator for this SATREPS program across all the research fields and areas.

Eligible research fields and areas

Research Field	Research Area
Infectious Diseases Control	Research on measures to address infectious diseases control attuned to the needs of developing countries

◆ To ensure that research proposals are appropriate for this program, please read the research field descriptions below carefully.

- In the Infectious Diseases Control field, after AMED—the Japan Agency for Medical Research and Development—is launched in FY2015, AMED is supposed to take over the role of JST described in this application guideline. However, the procedure between developing countries and Japan remains the same as in earlier years. Note that any ODA applications in the Infectious Diseases Control field made to the Japanese government by partner countries are subject to the same deadline (12:00 noon (Japan time) on Monday October 27, 2014) as applications in the other fields. (This point was noted in the application guideline for the other fields). If the counterpart government does not request a technical cooperation project by the deadline, a research proposal submitted in Japan will be considered incomplete and not go through the selection process.
- In response to growing need for urban solutions to addressing the urban planning and social infrastructure issues that arise as developing countries undergo rapid urbanization; the research areas have been expanded to include urban-research topics.
- When submitting a research proposal for a project involving interdisciplinary research that merges or extends over multiple fields or areas, select the area that is the closest match. Note that, after examining the content of the proposal, the project may be selected for a different area from that applied for.

◆ Applications are accepted for research projects covering topics in developing countries for which research and development to resolve an issue is particularly necessary, and for which capacity building of researchers in that country is required. Projects also ought to envisage their outcomes being applied to the benefit of broader society as well as in the developing country, being used towards the resolution of global issues, and bringing scientific and technological progress. A project is not eligible if it consists merely of transfer of Japanese technology without entailing any joint research, or solely of surveys and other simple

operations that do not make any contribution to the advancement of science and technology, or if it produces outcomes that can only be of benefit to one particular country.

◆ One restriction applied to all research areas is that clinical trials and medical practice are not eligible for the SATREPS program. Note also that for some research topics, there may be a requirement to take specific ethical perspectives into account.

[See: Q&A]

Infectious Diseases Control

Research Area : Research on measures to address infectious diseases control attuned to the needs of developing countries

HIV/AIDS, Ebola virus disease, malaria, dengue fever, tuberculosis, highly-pathogenic avian influenza, and other emerging and re-emerging infectious diseases not only pose a threat to health in developing countries, but act as a major impediment to social and economic development. The frequency with which people and goods are now moving across national borders means that these problems are not confined to developing countries. Japan is consequently keen to boost international cooperation regarding infectious diseases that have the potential to enter Japan, in order to accumulate knowledge in advance of any actual outbreak. Several examples are given below of potential research and development projects that target solutions for global issues in the area of infectious diseases control.

Research and development on Zoonosis such as avian influenza, rabies and others

Research and development for technology related to diagnostics, vaccines and therapeutics for the detection and control of emerging and re-emerging infectious diseases including HIV/AIDS, Ebola virus disease, malaria, Dengue fever and tuberculosis

6. Review criteria and considerations for the selection process

(1) Review criteria

□ The proposed project must envisage future utilization of research outcomes in society, including ideas for what can be applied, when it can be applied, how it can be applied, and when the objectives are likely to be realized. This does not necessarily have to be achieved within the research period; however, the idea to return the outcomes expected in the research plan to society should be clearly defined, such as by outlining the direction for the partner country's future activities, or for deployment to other regions or markets.—Direction for utilization of research outcomes.

□ The proposal must be based on the needs of the ODA recipient country, and be largely in line with Japan's ODA policy with regard to that country—Aligned with ODA policy.

□ The proposal must target the acquisition of new knowledge that can lead to the advancement of science and technology and to the development of new technology for addressing global issues—Scientific/technological value.

□ The project must have the potential to develop science and technology that could not be achieved by research in Japan alone, to train young Japanese researchers, to make effective use of Japan's science and technology in the developing country and globally, and moreover, to strengthen Japan's presence—Merits for Japan.

□ There must be a concrete plan for joint research with the developing country, a clear designation of the chief researcher in Japan and in the partner country, and of research institutes or other setups in both countries to undertake the research activities. Moreover, at the end of the joint research period, the developing country must have prospects for continuing to manage and maintain the machinery and equipment provided and continue with research—Setup for research in both countries.

□ There must be a suitable research expenses plan that takes into account research cost performance in the promotion of joint research—Efficient & appropriate research plan.

□ It is vital for the principal investigator to possess strong resolve and enthusiasm for promoting joint international research as the leader of a joint research team as well as exhibit strong and trustworthy leadership under JICA technical cooperation—Competent principal investigator.

(2) Considerations for the selection process

□ From the perspectives of diplomatic policy and science and technology policy, the selection process takes into account the need to ensure that there is an appropriate regional balance of selected projects among recipient countries (for instance, to prevent projects from clustering in one region), and also a balance in terms of project topics (for instance, to prevent excessive concentration of one particular type of research).

□ Proposals for partnering with countries that have never been selected or rarely been selected are particularly welcome.

□ As developing countries are facing increasingly obvious and serious issues with urbanization, proposals that address urbanization issues are particularly welcome in each of the research fields and areas.

□ The direction for returning research outcomes to society after the research project terminates is clearer if the entity likely to take on that role participates from the initial stages of research and development. From that perspective, proposals incorporating partnerships with corporations (industry-academia-government collaboration⁹) to work with the outcomes are particularly welcome. When making an application for an industry-academia-government collaboration project, the principal investigator's institution should fill in Form 2 (2), and the participating corporation should fill in Form 9, with both explaining in detail their ideas for the collaboration. (If the principal investigator's institution is a private sector business, also fill in and submit Form 9.)

□ In view of the nature of the program in dealing with issues on a global scale, proposals for conducting international joint research involving Japan and more than one other country are welcome. Research projects extending over several countries need to ensure that the ODA applications from each country are submitted by the deadline. If the documents are not submitted by all countries, the whole application is judged to be incomplete and excluded from selection. It is also necessary to have a signed R/D from all associated countries in order for the project to start.

□ Projects involving African nations are particularly welcome, especially projects that address the needs of the region by incorporating initiatives for capacity development, local surveys and data analysis, and the development and application of appropriate technology or technology of direct utility in coping with problems.

□ Considering the importance of nurturing young talent, applications are encouraged that propose research teams whose principal investigator is a young researcher under 45 years old or on which more than half of the researchers in the research team in Japan (researchers listed in Form 3 scheduled to engage in the research during the research period) are researchers under 35 years old.

□ A proposal (project) will be highly evaluated if the plan involves scientific and technological research of a high standard, is specific rather than general, and has a clear roadmap, including timing and methodology, for utilizing the research outcomes in society.

□ There are expectations for systematic initiatives based on the partner country's policies and needs, and incorporating the partner country's government agencies and similar entities.

□ It is desirable that the institution in the developing country constructs partnerships with private-sector and affiliated government entities during the period of the project, so that when the project comes to an end, the setup remains in place and capabilities continue to be strengthened, enabling the research and development process to continue, and the research outcomes to be utilized in society. Alternatively, it would be desirable for the approach for returning outcomes to society to involve partnerships with private businesses such as BOP (base of pyramid) businesses or Japanese SMEs (small and medium enterprises) expanding internationally, or with NPOs, and other grassroots activities.

□ Utilization of research institutions and universities that have previously been developed by Japan's ODA and outstanding research sites in relevant regions is encouraged as a strategy for research to make the utmost use of the features of ODA recipient countries.

□ Proposals similar to the projects selected from FY2008 to FY2014 will be reviewed based on viewpoints such as whether essential differences exist in terms of aspects of the research objective, target, approach, region of implementation, etc. or whether a greater contribution to the resolution of global issues can be expected under competitive implementation with existing similar projects.

□ It is also important for the institutions where the researchers are affiliated to possess the infrastructure for international research activities necessary to undertake the proposed joint research, as well as having the intention to provide sufficient support and cooperation.

⁹ For the purposes of this program, entities participating as "industry" players have businesses incorporated in Japan.

□ Proposals involving a corporation or similar entity as the principal investigator's institution need to meet certain conditions to be eligible for selection.

[See: Q&A]

□ Where necessary, the finances of a corporation or similar entity will be inspected.

□ From an ODA viewpoint, selection will take into account the following perspectives.

- Aligned with ODA principles

From a diplomatic perspective, is implementation of the project significant or necessary? Does it match with the partner country's development policy and needs? Does it fit in with the Country Assistance Policy and priority areas?

- Counterpart Institution Implementation Structure

Does the partner country's implementation structure have budget, staff, and facilities (equipment)? Has a counterpart appropriate for an ODA project been selected? Can capacity development be anticipated? Does the counterpart have an adequate record in terms of research activities and results?

- Relevance, effectiveness, efficiency, impact as a project

Is the content of the request (proposal) appropriate for resolving the development issues of a developing country? Is the objective achievable by the project? Is it clear how outcomes will be applied to benefit society?

- Relationship with other projects in the same field funded by Japanese and other donors

What sort of relationship will this project have with other aid projects in the same field? Will there be any overlap or negative effects?

- Project proposal demonstrating awareness of implementation through ODA.

Does the proposer of the research sufficiently appreciate the significance of implementing the joint research using an ODA framework in addition to a competitive funding framework? Does the proposal properly state why ODA is necessary?

In addition to these considerations, the appropriateness of machinery and equipment plans (obstacles from a procurement perspective, structure for maintenance and management after the project finishes) will be taken into account, and projects considered particularly feasible as ODA projects will be given precedence.

[See: Form 10]

7. Selection process

(1) Screening process

At the selection stage, JST/MEXT and JICA/MOFA collaborate to screen applications. JST/MEXT primarily screen applications from a science and technology viewpoint. In contrast, JICA/MOFA primarily screen applications from an ODA viewpoint. As the research outside Japan is implemented as an ODA project, the research needs to take the form of cooperation, contributing to addressing or resolving issues faced by the partner country and fitting in with the Country Assistance Policy. It must also display a practical approach, showing a roadmap for applying the research outcomes to the benefit of society. Please be aware that JST will provide submitted documents and the results of documents and interview screenings to MOFA, MEXT, and JICA.

(2) Two-step selection process

The screening committee composed of external experts in their relevant scientific disciplines appointed by JST will conduct the selection in two steps—document screening and interview.

(3) Avoiding conflict of interest

In accordance with JST regulations, a person who has a conflict of interest due to his or her relationship with the applicants, etc. will not participate in selection.

(4) Number of projects expected to be selected

The number of projects to be selected will vary according to the Japanese government's FY2015 budget.

8. Requirements for principal investigator (applicant) and research participants

The principal investigator (PI; applicant) must be affiliated with a Japanese research institution¹⁰, be able to fulfill the duties as principal investigator for the international joint research project, and be able to engage in the international joint research from start to finish. The application should be written by the principal investigator in person.

Japan side research participants are required to be affiliated with a research institution in Japan.

- If a researcher has posts at both a Japanese research institution and a research institution in the partner country, he or she cannot be included in both institutions' lists of members, so has to choose which one. The principal investigator has to be a Japan side member.

- If a researcher not affiliated with the research institution is required to participate in the project, appropriate procedures need to be taken.

- An institution in a third country (neither Japan nor the partner country) cannot participate in the joint research. Moreover, a researcher whose only affiliation is an institution in a third country cannot participate in the joint research. See the Q&A for details.

- International agencies can participate, but with certain limitations. See the Q&A for details.

- The lists of members should be shared between the Japan side and the partner country side.

9. Responsibilities of principal investigators after selection (provisional selection)

The following responsibilities will take effect for the principal investigator (etc.) upon provisional selection.

(1) Leading and managing the research

- The principal investigator must assume responsibility for the entire international joint research for the full duration of its implementation. The principal investigator, based on his or her own research concept, must be able to form a research team best suited to the implementation of the research subject, and exercise leadership while engaging directly in the research subject. Under this program, research teams may be formed including researchers affiliated with other research institutions in Japan (including private enterprises, etc.) and researchers specializing in other research fields, including the humanities and social sciences, and conduct joint research with research institutions in developing countries.

- The principal investigator must act as the leader of the project under JICA technical cooperation to oversee and liaise with the counterpart and others to coordinate the planning and implementation of Japan's inputs (including experts dispatch, provision of machinery and equipment, acceptance of trainees), reporting regularly to JST/JICA, submitting to JST/JICA's joint project appraisal, and appropriately managing the execution of the project, and must manage and control the SATREPS project as a whole. As a rule, unilateral termination of the research activity at the principal investigator's wishes midway through the implementation period will not be allowed.

- After provisional selection, the principal investigator must be able to attend meetings in Japan with JST/JICA (three to five times) and to visit the prospective ODA recipient country in a part of JICA's Detailed Design Study (approx. 10 to 14 days during the period between August and October 2015).

- The principal investigator shall be responsible for research, for planning and implementation of inputs, and in the case of a research team being formed in Japan, for that research team. In planning and implementing the dispatch of joint researchers and provision of machinery and equipment, the principal investigator shall take particular care to ensure full communication with the counterpart country, and to secure roles for young researchers from both Japan and the partner country. The principal investigator shall also attend meetings of the Joint Coordinating Committee (JCC) held in the developing country to report on progress of the research and discuss operation and management.

¹⁰ "Japanese research institutions" refers to universities, independent administrative institutions, public-sector research and development institutes, public-service corporations, or private-sector corporations, etc., each of which must be incorporated in Japan, and also to national institutes that are not incorporated. For incorporated entities, no distinction is made between the forms of incorporation, but the corporation's ability to implement research is scrutinized during the selection process.

- The principal investigator shall submit reports and other materials required by JST/JICA and submit to project appraisal by JST/JICA. The principal investigator shall also report on the progress of research whenever requested by the JST/JICA.
- The principal investigator shall be responsible for consensus-building, communication and coordination with administrative offices and other entities within the research institution.
- This fund is supported by the Government of Japan. Therefore, the principal investigators are encouraged to actively publicize research outcomes both domestically and internationally while taking into consideration the handling of intellectual property rights.
- If any result achieved through the research project is to be publicized in a paper or other form or presented at a conference or other venue, it should be indicated that the outcome has been achieved with support of the JST/JICA Science and Technology Research Partnership for Sustainable Development (SATREPS).
- Taking into account that this is an international joint research initiative, the principal investigators are required to actively acquire intellectual property rights where that is not to the disadvantage of the partner. In principle, applications for intellectual property rights shall be conducted by the institution on the basis of the Contract Research Agreement.
- When the principal investigator participates in workshops or symposia organized by JST/JICA, he or she is expected to make a presentation of research outcomes.

(2) "Public Dialogue in Science and Technology"

Under the "Promotion of Public Dialogue in Science and Technology (Basic Policy)" (June 19, 2010, Minister of State for Science and Technology Policy, Diet members with special knowledge of the Council for Science and Technology Policy; in Japanese), "Public Dialogue in Science and Technology" is discussed in terms of approaches to communicate the details and outcomes of research to the general public in an easy-to-understand manner, and to achieve friendly two-way communication that inspires anticipation and hope. Projects selected under the SATREPS program that receive public research funding of 30 million yen or more per year are requested to take a proactive approach to dialogue with the general public in Japan about science and technology.

<http://www8.cao.go.jp/cstp/output/20100619taiwa.pdf> (Japanese)

(3) Compliance with research agreement etc.

Each principal investigator shall comply with the research agreement between JST and research institutions, other JST rules and regulations, JICA's Agreement for Technical Cooperation and project contract, the R/D concluded between JICA and counterpart research institutions, and MOU related to the joint research concluded between research institutions.

(4) Submission of documentation confirming compliance

After a project proposal has been selected, the principal investigator will, via an explanatory meeting held by JST, confirm compliance with the following items, and notify JST in writing that compliance has been confirmed.

- a. Compliance with the requirements of the Application Guideline
- b. The research funding provided by JST is paid for from national taxes. The principal investigator must promise not to act in an illicit manner or make illicit use of anything in the course of the research.
- c. In order to prevent misconduct (fabrication, falsification, or plagiarism of research reports, etc.) by researchers and others participating in the project, the principal investigator shall promise JST to publicize the obligation to study the research ethics course (online learning materials) uploaded to the research and development database.

If researchers do not study the research ethics course described in c. above, payment of research expenses may be suspended until the researchers are in compliance.

Note: The obligation to study the research ethics materials and the submission of documents confirming compliance are applicable to research topics selected in FY 2013 onwards.

(5) Obligation to study research ethics learning course

In order to prevent misconduct (fabrication, falsification, or plagiarism of research reports, etc.), researchers and others participating in the project are obliged to study the research ethics course stipulated by JST (online learning materials).

10. Responsibilities of research institutions

[See: Form 8]

The responsibilities of Japanese research institutions (institutions to which the principal investigator and main research collaborators in research projects that have been selected or provisionally selected are affiliated) are as described below.

(1) The research institution must secure a structure for conducting the research. Also, the director of the institution must give maximum consideration to the status of the principal investigator during the term of the research. The director of the institution is considered to be the president or chair of the board or other person with responsibility for the whole of the institution, or in the case of entities such as private-sector corporations, it should be a person in a position of responsibility to ensure the required support and setup throughout the period of research. It does not normally include executives or management at a lower level in the organization, such as general managers, directors of divisions or centers, or heads of departments).

(2) In order for the research to proceed effectively, it is necessary to ensure the smooth progress of procedures for signing agreements with JST/JICA, submission of required reports to JST/JICA, and the facilitation of surveys of accounting processes by JST/JICA or government accounting audits. Details are given in Japanese in V. (Considerations when submitting an application). Make sure that these requirements are fully understood before submitting an application. Concerning the Agreement with JICA, accounting operations must be handled appropriately in accordance with the project contract and the project contract guidelines stipulated by JICA (including reporting to JICA as required).

(3) Research institutions, as the bodies which implement ODA technical cooperation, shall be required to provide support for activities (e.g. procedures to request payment of funds that have been awarded to the principal investigator's institution) in accordance with the Agreement, project contract, and R/D, etc. with JICA. In principle, only the principal investigator's institution will sign the Agreement with JICA; however, other research institutions involved in the research project are required to provide support for activities in accordance with the R/D, etc. Concerning the Agreement with JICA, accounting operations must be handled appropriately in accordance with the project contract and the project contract guidelines stipulated by JICA (including reporting to JICA as required).

(4) Necessary reports must be made to JST and JICA when applying for and after obtaining intellectual property rights vested in the research institutions in accordance with Article 19 of the Industrial Technology Enhancement Act (Japanese version of the Bayh-Dole Act).

(5) Apart from the R/D, the principal investigator's institution must sign a Memorandum of Understanding (MOU) with the research institution in the partner country regarding the international research collaboration. The MOU should include the treatment of intellectual property rights, handling of confidential information, publication of research results, warranty and indemnification, and access and transfer of the bio-resources in the partner country. A draft of the MOU should have details of essential items etc. approved by JST before signing. It is best to sign and exchange MOU simultaneously with the signing and exchange of R/D between JICA and the institution(s) of the ODA recipient country in order to match the content with the R/D. All researchers and members in the research team in Japan shall observe the MOU signed by the principal investigator's institution.

(6) A research institution entering a Contract Research Agreement with JST wishing to include researcher(s) not affiliated with that institution must exchange appropriate documents between the two institutions in order to ensure compliance with the JST Contract Research Agreement, Joint Research Agreement and content of R/D. (e.g. When a researcher affiliated with University B is to participate on a research team at University A which has entered a Contract Research Agreement with JST)

11. Research period/Duration of research

The period of international joint research (period to conduct the technical cooperation project set out in the R/D) is three to five years.

As shown in Figure 3, within the limits of the budget for JST contract research expenses determined at the time of provisional selection, it may be possible to extend the completion date for research activities in Japan funded by JST contract research expenses up to the end of the fiscal year in the final year of joint international research implementation prescribed under the R/D (in such cases, payment of expenses incurred by the ODA side extending past the period stated in the R/D will not be made).

Following provisional selection of research projects, JST contract research expenses are available to Japanese research institutions before the signing of R/D and other agreements (MOU, etc.) to ensure swift implementation of the international joint research project after the R/D and other agreements are signed. This coverage only extends to research expenses incurred by the Japanese team for the purpose of preparation for the international joint research activities.

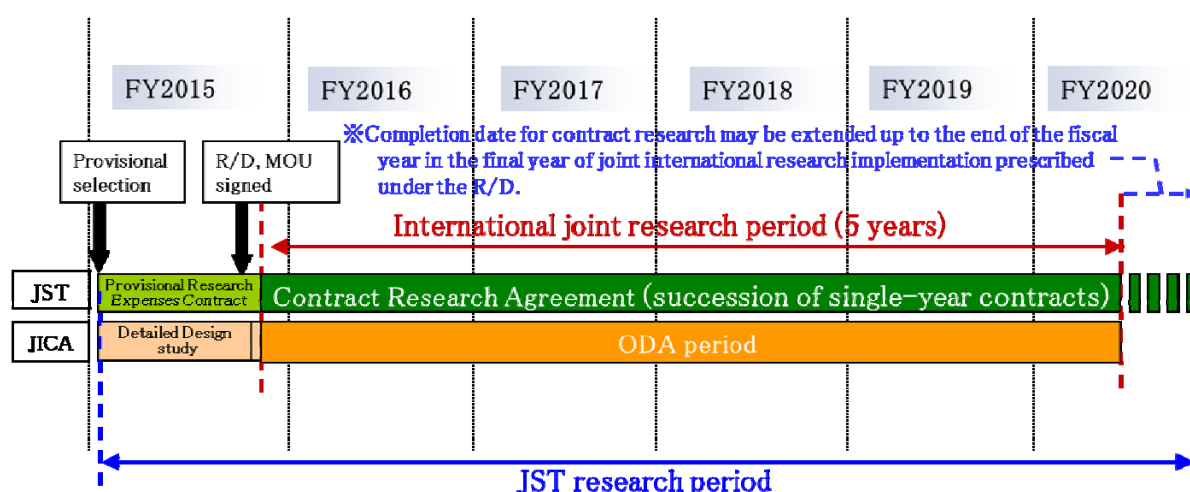


Figure 3. Extent of Research Period (5-year project)

12. Research expenses (JST contract research expenses and ODA project expenses)

In this program, JST will provide financial support to the Japanese research institution for the project activities in Japan and JICA will provide financial support to the research institution in the ODA recipient countries within the framework of technical cooperation projects.

(1) The overall contract research expenses awarded by JST per project shall be approximately JPY 36 million per year (and not exceed a total of JPY 180 million for a five year project), including indirect expenses and overhead.

The amount is a rough indication, and assumes the approval of the FY2015 budget. Please be forewarned that changes and adjustments to amounts and (particularly this year) also to particulars may be required according to budgetary considerations.

Cost performance will also be an important factor for consideration during the selection process. Proposals with high expenses, compared to those with lower expenses, will be expected to yield substantially greater research results, and require much greater responsibility. Carefully examine your research expenses.

JST will distribute the full amount of research funds granted to the research institutions that principal investigator and main research collaborators are affiliated with. The funds should be managed by the institutions. An amount equivalent to up to 30% of the direct cost can be appropriated from within the contract research expenses for indirect research expenses incurred by the research institution in relation to the contract research.

Handling and categorization of expenses for projects are based on cross-ministerial expenses categorization. For details of how to handle expenses, refer to the cross-ministerial expenses categorization table that can be accessed from the website below (only in Japanese):

<http://www.jst.go.jp/global/itaku.html>

In principle, the research is implemented in line with the research plans for the year in question, but JST has found that single-year accounting presents difficulties for the use of research expenses. In particular, attempting to use up the remains of the budget by the end of each financial year leads to waste and can act as an incitement to improper bookkeeping. For this reason, JST has brought in a simple procedure for carrying amounts over to the next financial year, enabling researchers to avoid the complex authorization requirements that had previously been needed whenever the progress of the project resulted in a need to carry over funds at the end of the year. The system enabling funds to be carried over applies to universities and other entities concluding multi-year contracts. Other details concerning disbursement of JST contract research expenses are available at the following website under Contract Research Agreement Administrative Procedures. (Currently Japanese only)

<http://www.jst.go.jp/global/itaku.html>

(2) For each project, ODA project expenses are limited to a maximum of JPY 60 million per year per project. The actual budget is fixed after the Detailed Design (D/D) study of the research project, which does not occur until after provisional selection of the project.

The current invitation for research proposals has been made before the government budget has been approved. Consequently, depending on the details and the amounts included in the government budget that is finally approved, there may be changes in the upper limit to the funding available per project.

The ODA project expenses provided by JICA are technical cooperation costs, and the project contract is basically an agreement whereby the principal investigator's institution undertakes to provide the technical cooperation services on JICA's behalf. Consequently, the approach to the use of funds and supervision of expenditures is very different from that applying with other research subsidies and grants. Details of expenses that can be met are given in chapter IV "Overview of ODA Technical Cooperation", which should be studied carefully.

[See: IV.5.(4)]

13. Expenses covered by JST and JICA

As a rule, research expenses are categorized into those covered by JST as contract research expenses and those covered by JICA as project expenses, as described below: (See also Table 2.)

A. Research expenses incurred in Japan and other locations outside the developing country will be supported by JST as contract research expenses.

B. Costs incurred within the developing country (research activity costs, on-site machinery and equipment procurement, etc.) are shouldered by JICA (travel expenses to invite researchers to Japan from the developing country shall also be the responsibility of the JICA).

C. As a rule, travel costs and on-ground expenses for researchers from Japan dispatched to the counterpart institutes on official business shall be borne by JICA (for those who are dispatched for more than one year, travel cost for dispatch and return, transfer allowance, other allowances, etc.).¹¹ Activities relating to the international joint research undertaken by researchers from Japan within the developing

¹¹ In some exceptional cases, it may be possible for costs relating to official trips to the developing country to be covered by JST research expenses (For example, researchers of the developing country institute employed in Japan as post-doctoral researchers). However, trips covered by JST funds will not be considered activities as prescribed by the R/D for the international joint research in question: tax immunity provisions may not apply, and permission for on-ground activities may not be granted. Consult with JICA in advance.

country will be governed by the provisions on tax immunity and permission for activities prescribed in the R/D concluded between JICA and the counterpart institutes.

When SATREPS project team members are dispatched to the ODA recipient country, JICA does not cover supplementary labor costs and overhead costs or in-country salary (paid directly as a fixed monthly amount when the team member is affiliated with an institution but not paid during the dispatch period) incurred by the researcher's institution.

As JICA supports that country with ODA under the technical cooperation framework, the country is required to depend on its own efforts. Consequently, the local institution's costs incurred for the project (labor costs, rent, consumables used by local researchers, operation and maintenance of machinery and equipment supplied, domestic transportation fees for local researchers, daily allowance for attending a meeting, and other miscellaneous costs) should in principle be covered by its own country.

Expenses	JST	JICA
A: Research expenses incurred in Japan	YES	
A: Research expenses incurred outside of partner countries (Travel expenses to third countries, on-site expenses, etc.)	YES (Note 1)	
B: Research expenses incurred in partner countries (Research activity costs, on-site machinery and equipment procurement, etc.)	Exceptionally (Note 2)	YES (Note 3)
B: Travel expenses to invite researchers to Japan from partner countries		YES
C: Travel expenses between Japan and partner countries for Japanese researchers		YES

Table 2. Categories of expenses covered by JST and JICA

Note 1: Joint projects with research institutions in a third country are not covered.

Note 2: In principle, financial support from JST is limited to research expenses that are not covered by JICA.

Note 3: Research expenses incurred in the ODA recipient country include equipment, research supplies, and consumables required for the Japanese researchers to conduct international joint research in the partner country.

[See: IV.5.(6)]

When a private-sector corporation or similar entity submits an application as the research institution, coverage of expenses may differ from the description given above. Consult JST/JICA in advance for details.

III. SATREPS program management by JST

1. Program Director (PD)

The Program Director has overall responsibility for management of the SATREPS program. He or she makes policy decisions on the overall thrust of the program, coordinates the different research fields and areas, decides on project selection (including provisional selection) and chairs the program committee that deliberates on important matters concerning research project management. The program committee consists of the Program Director, Program Officers, and external experts.

2. Program Officers (PO)

Each of the Program Officers has overall responsibility for research in a specific research area. He or she joins external experts on the screening committee, acting as either the chair or a member of the committee. The screening committee is a subcommittee of the program committee, and it decides on candidates for SATREPS projects (including candidates for provisional selection). After projects have been approved (including provisional selection), the Program Officer handles the research management for his or her research area by coordinating the research plans of the individual research projects (including plans concerning research expenses and composition of the research team), exchanging ideas and views with principal investigators, giving advice concerning the research, conducting project evaluations, and by other means as necessary. The Program Officer also gives advice to the collaborating country's researchers.

3. Research plans

(1) After provisional selection, in the period leading up to the signing of documents such as the R/D and MOU (between provisional selection and the end of that FY), the principal investigator shall draw up research plans, beginning with the Provisional Research Plan. In parallel, he or she shall draw up an Overall Research Plan that covers the entire period of the research project. The principal investigator also draws up an Annual Research Plan each year. Research plans shall include budgets for research expenses, composition of the research team, and overall plans for the international joint research.

(2) Each research plan (both Overall Research Plan and Annual Research Plans) is finalized after liaison with and confirmation by the Program Officer. The Program Officer shall offer advice, make adjustments, or give instructions as necessary for matters concerning the research plans based on the selection process, exchanges of opinions with the principal investigator, familiarity with daily progress in the research, and results of project evaluations. Major decisions, such as significant changes to research plans, may need to be examined by the program committee.

(3) When making decisions on project research plans, Program Officers may make adjustments between projects for reasons such as accomplishing the overall goals of the research area.

4. Project evaluation (after research commences)

Evaluation of projects is handled jointly by collaboration between JST and JICA. JST project evaluation follows the procedure set out in the Guidelines for JST Mid-term Evaluation

(<http://www.jst.go.jp/global/english/hyouka/pdf/mid-evaluation-procedure.pdf>), and Guidelines for JST Terminal Evaluation (<http://www.jst.go.jp/global/english/hyouka/pdf/end-evaluation-procedure.pdf>). JICA project evaluation (JICA uses the term "mid-term review" for mid-term evaluations) is performed in addition to regular monitoring as part of JICA's project management processes, treating the project as an ODA project, and conducting the evaluation together with the principal investigator and with researchers of the collaborating institution and government officials etc. in the collaborating country, following the procedure set out in the New JICA Guidelines for Project Evaluation

(http://www.jica.go.jp/english/our_work/evaluation/tech_and_grant/guides/). (With the exception of ex-post evaluation after the project has terminated)

The following types of evaluation are conducted

- a. Mid-term Evaluation, conducted in or about the middle year of the period of international joint research (the third year of a five-year project)
- b. Terminal Evaluation, conducted before the end of the research period
- c. Follow-up Evaluation, conducted a certain period after the research period has ended (JICA uses the term "ex-post evaluation" for follow-up evaluations)

The Evaluations are published as reports and made available online. The findings of the Mid-term Evaluation in particular are used as reference for subsequent adjustments to research plans and allocation of resources (including changes to budgets for research expenses and to the composition of the research team). In some cases, this may lead to measures such as adjustment between research projects or termination of a Contract Research Agreement. For research projects of less than five years, the necessity for conducting a Mid-term Evaluation will be decided following discussion between the people and entities involved in the specific project.

5. Research agreements and intellectual property rights

(1) In the period between provisional selection of a project and formal selection, JST concludes a Contract Research Agreement only with the principal investigator's institution. However, after JICA has signed the R/D with the research institution etc. in the partner country and memorandums (MOU etc.) concerning the implementation of joint research have been come into effect (following formal selection of the project), JST concludes Contract Research Agreements with both the principal investigator's institution, and where necessary, the lead joint researchers' institutions. (See Figure 4.)

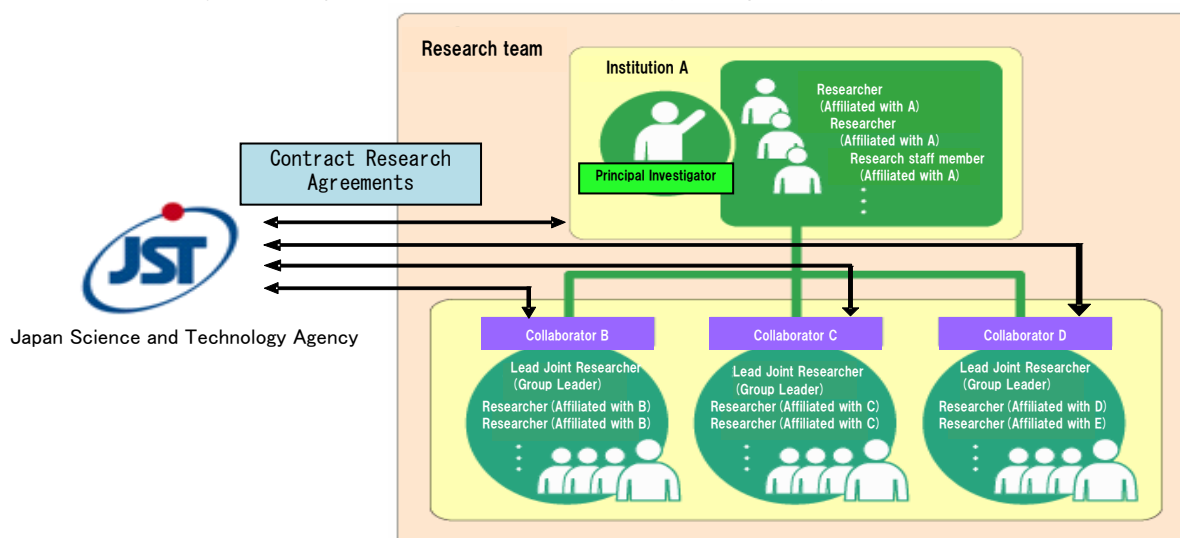


Figure 4. Contract Research Agreements with JST

(2) If it is not possible to conclude a Contract Research Agreement with a research institution, or if it is not possible to put in place a setup to control and audit the use of public research funding, or alternatively, if there is significant instability in an institution's finances, it may not be possible to implement the research at that institution.

(3) When a national or public research institute concludes a Contract Research Agreement, if prior budgetary or other measures are required due to the Public Accounting Act or other regulations, the institute must take responsibility for completing the procedures for such measures etc. before the commencement of the Contract Research Agreement. If, after concluding the Agreement, it is discovered that the measures have not been implemented, it may be necessary to revoke or terminate the Contract Research Agreement and take measures for the return of all or part of any contract research funds disbursed.

(4) Based on the Contract Research Agreement and subject to conditions including compliance with Article 19 of the Industrial Technology Enhancement Act (the Japanese equivalent of the Bayh-Dole Act), patents and other intellectual property rights arising from the research accrue to the research institution.

IV. Outline of technical cooperation through ODA

Before you apply for this program, please ensure that you fully understand the following since this program is implemented using the ODA framework.

1. What is official development assistance?

Official Development Assistance (ODA) is development cooperation using public funds in the forms of financial support and technical cooperation provided by donor governments or their implementing agencies to recipient countries, aiming to contribute to the promotion of the economic development and welfare of developing countries as well as the stabilization of people's livelihood. Japan joined the Colombo Plan in 1954¹² and at the same time started providing development aids. Japan has been providing economic and technical cooperation to developing countries ever since.

Japanese government sets forth its philosophy on ODA, the principle of ODA implementation and the framework for planning and implementing its ODA policy in "Japan's Official Development Assistance Charter (The ODA Charter)". The ODA Charter states that "the objectives of Japan's ODA are to contribute to the peace and development of the international community, and thereby to help ensure Japan's own security and prosperity", thus prompting the strategic use of ODA. In addition, based on the ODA Charter, the government of Japan prepares the "Japan's Medium-Term Policy on Official Development Assistance" every five years. This is a policy document presenting Japan's approach to ODA for a period of five years with a focus on the quality of assistance to be provided. The document specifies Japan's philosophy on ODA, priorities and Japan's approach to regional assistance. All ODA projects must be conducted in line with the ODA Charter and the Medium-Term Policy on ODA.

2. What is technical cooperation?

JICA aims to contribute to the promotion of international development cooperation and sound economic growth of Japan and the international community by contributing to the socioeconomic development, recovery and economic stability of developing countries. JICA's activities include: technical cooperation (acceptance of trainees, expert dispatch, provision of machinery and equipment, etc.), loans and grant aid, the promotion of cooperation activities by Japanese nationals (dispatch of Japan Overseas Cooperation Volunteers, etc.) and international disaster relief.

Technical cooperation provides technical assistance in order for developing countries to develop capacity to address development issues independently and comprehensively through institution building, capacity and institutional development.

A form of technical cooperation is a technical cooperation project, which is key activity to be conducted by choosing the best combination of "acceptance of trainees" "expert dispatch" and "provision of machinery and equipment". JICA pursues best outcomes by engaging in technical cooperation in a planned and comprehensive way from planning through implementation to the assessment of outcomes and by working together with relevant institutions in recipient countries.

SATREPS runs joint research using the framework of technical cooperation and is expected to promote international joint research between research institutes in Japan and those in recipient countries in a systematized way in order to obtain new knowledge that is conducive to resolving global issues.

3. Flows of a technical cooperation project

- (1) From the submission of a request for cooperation to the examination and adoption of a project
JICA's technical cooperation is initiated at the receipt of requests from developing countries.

Japan's ODA involves a process called "request survey", in which a research institute in a developing country wishing to obtain technical cooperation from JICA for a new project to be launched in and after the following fiscal year is invited to submit a request. The actual procedures are as follows: a research institute that wishes to launch a new project under the framework of

¹² The Colombo Plan is a regional organization established in January 1950 in a cooperative attempt to strengthen economic and social development of member countries in South Asia, Southeast Asia and the Asia-Pacific region.

JICA's technical cooperation prepares a request form, gains approval from competent authority and submits the form through the country's ministry responsible for ODA to the Embassy of Japan in the country. Then, the Embassy of Japan forwards the request form with other documents to the Ministry of Foreign Affairs (MOFA) in Japan.

Upon the receipt of the request, the government of Japan screens the requested project and when it is deemed that the project should proceed, a project selection notice is sent to the recipient country's government and international agreement is made between Japanese government and the recipient country's government (The Embassy of Japan in the recipient country and the recipient country's responsible authority issue a verbal note, etc.)

All requests for cooperation regarding the SATREPS program for fiscal year 2015 must be received by Japan's Ministry of Foreign Affairs (MOFA) in Tokyo no later than 12:00 noon (Japan Time) on Monday October 27, 2014.

Please note that requesting countries' governments usually set an application deadline before the above-mentioned deadline. So please bear that in mind when you coordinate schedules with research institutes in requesting countries. As in the deadline for research proposal through e-Rad system, requests received after the deadline will not be considered.

Regardless of requests submitted for projects up to FY 2014, a country wishing to apply for project selection for FY2015 is required to submit a request form again. Please note that requests not received by the deadline will not be considered even if the research proposal has been submitted.

In applying (i.e. submitting a request form), you should share the information before hand with the Embassy of Japan and JICA office in partner country.

(2) Preparing for a Detailed Design study

Based on the above-mentioned international agreement, JICA conducts a Detailed Design (D/D) study. The D/D study is to examine the current status of possible cooperation field and the background to a request for cooperation. During the process, JICA discusses with the requesting country's related parties on basic project plans, implementation framework and responsibilities of donor and recipient countries, and what was discussed during the meetings is summarized in a Minutes of Meeting (M/M) to be signed by the both parties. The principal investigator who manages the Japan's research team (i.e. the project leader) is required to participate in the D/D study. In addition, in the D/D study, the expected outcomes from the planned project are more clearly identified and ex-ante evaluation is performed to examine the appropriateness of the project comprehensively.

(3) Signing a Record of Discussions (R/D)

After completing the D/D study, JICA prepares a Record of Discussions (R/D) to be signed by JICA and an implementing agency of the recipient country, while going through the approval process. The R/D is an official agreement on the implementation of a project, specifying the details of project activities and necessary measures.

(4) From the commencement to the end of a project

In accordance with a cooperation period stipulated in the R/D, a project is launched. Based on the R/D, inputs including expert dispatch are provided to meet project objectives.

Furthermore, during the project implementation period, the project is monitored on a regular basis to check progress on expected outcomes. (See Section 7 for details.)

The flow of the above-mentioned processes from (1) to (4) is summarized in Figure 2 on page 6.

(5) Points of note regarding project implementation

Where a project provisionally accepted may take time before the R/D is signed (please refer to Table 3 for a typical timeframe between the provisional selection of a project and the signing of the R/D.), in order that international joint research is launched without a delay once the R/D is signed, only for research expenses incurred in Japan in connection to the preparation for joint research may be funded by Japan Science and Technology Agency (JST)'s contract research expenses. On the other hand, JICA's expenses may be incurred only after a project contract is signed between JICA and

the principal investigator's institution after the signing of the R/D. In addition, please note that JICA's spending shall be based on the R/D signed between JICA and the research institute in the recipient country concerned and JICA cannot fund any expenses associated with a project under this program before an R/D is signed and after the cooperation period specified in the R/D is over.

In some cases, the R/D cannot be signed in the end. Under such circumstances, a research project provisionally selected cannot be implemented, thus preventing JST's contract research expenses from being used at that point. Furthermore, the same shall apply to the case where the R/D is not signed by the end of March 2016 due to prolonged negotiation and/or is not expected to be signed in the near future.

	Typical timeframe ¹³
Prepares for a Detailed Design study (meetings, contract with consultant (members responsible for evaluation analysis), formalities for dispatching research group)	About 2.5 months
Conducts the Detailed Design study (local survey), signs M/M and reports on the study in Japan	About 0.5 - 1 month
JICA performs ex-ante evaluation	About 1.5 - 2 months
The R/D is signed (between the head (Resident Representative) of JICA overseas office and competent authority or the head of research institute in the recipient country)	About 0.5 - 2 months
Prepares for launching a project, including procedures for approving project implementation, the Agreement and project contract are signed between JICA and the principal investigator's institution, selection and dispatch of project coordinators ¹⁴ .	About 2 - 3 months
Project commencement	About 7-10 months after the project is provisionally accepted

Table 3. Timeframe from the provisional selection of projects through the signing of an R/D to the launch of the project

(6) Miscellaneous

For details on project implementation, please refer to the following:

JICA "Science and Technology Research Partnership for Sustainable Development (SATREPS) project Jisshino Tebiki (only in Japanese)"

http://www.jica.go.jp/activities/schemes/science/form/pdf/manual_SATREPS.pdf

4. Framework for implementing a technical cooperation project

(1) Japan's implementation framework

The Embassy of Japan, JICA overseas office and a Japanese research team work together in the recipient country. A research team consists of the project leader (i.e. the principal investigator and the representative of the researchers who leads the research team) and project coordinators* who support the research team and researchers responsible for their respective research fields.

(* See Section 6 for project coordinators.)

¹³ Actual time period differs depending on projects.

¹⁴ Project coordinator is explained in detail in Section 6.

(2) Recipient country's implementation framework

Participants from the recipient country will be: ministry and agency responsible for ODA (the ministry of foreign affairs, the ministry of finance, the ministry of planning, etc.), ministry and agency controlling research institutes (the ministry of higher education, the ministry of agriculture, the ministry of health, the ministry of industry, etc.) and research institutes (university, research institute, etc.). The recipient country's team consists of: project director who bears the ultimate responsibility for the project, project manager who has the overall responsibility for managing on-site works and essentially serves as the head of the counterparts, and counterparts, i.e. staff who conduct project activities together with the Japanese team.

(3) Joint implementation framework between Japanese team and recipient country's team

JICA's technical cooperation project is conducted jointly with recipient countries. Recipient country ownership is important in promoting the country's independence and development. Recipient country's principal investigator's responsibility as project manager is as serious as the Japanese principal investigator's responsibility as project leader. (See Figure 5.) Furthermore, Joint Coordinating Committee (JCC) is established and meets on a regular basis to discuss and solve issues so that joint research is conducted smoothly. JCC, as a general rule, consists of related parties from the Japan and recipient country's sides (the Japan side: the Embassy of Japan, the head (Resident Representative) of JICA overseas office, the principal investigator, researchers, project coordinators, etc.; the recipient country's side: ministry and agency responsible for international assistance, ministry and agency controlling research institutes, related authorities, research institutes, etc.). Given that this program is international joint research, JCC shall be operated jointly by the Japan and recipient country's sides.

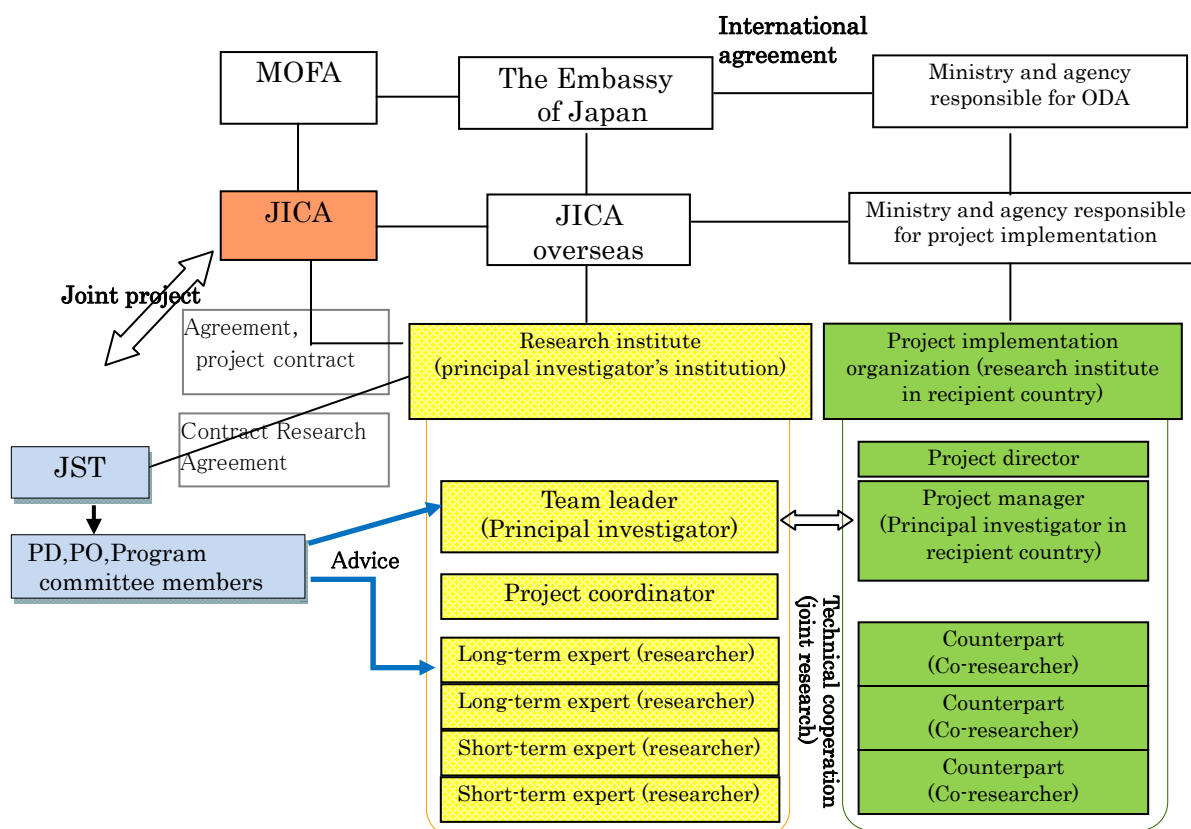


Figure 5. The framework for implementing a technical cooperation project (example)

5. Contract between JICA and the principal investigator's institution

The research institute the principal investigator of the selected project is affiliated with signs a Contract Research Agreement with JST and is also required to sign an “agreement regarding the implementation of technical cooperation under the framework of SATREPS” (hereinafter referred to as “the Agreement”) and a project contract with JICA. The Agreement specifies duties and responsibilities of JICA, the principal investigator and the principal investigator's institution regarding the selected project. The Agreement is intended to help clarify the research institute's roles and responsibilities in conducting joint research in developing countries.

Please note that the Agreement has to be signed per research institute that the principal investigator is affiliated with. The research institute that has already signed the Agreement for other SATREPS project is not required to newly sign the main part of the Agreement, but is required to prepare an appendix that defines the scope of application.

For the forms of the Agreement (the main part), the appendix and project contract, please refer to the following websites (only in Japanese):

The main part of the Agreement : http://www.jica.go.jp/activities/schemes/science/form/pdf/A_1.pdf

Appendix : http://www.jica.go.jp/activities/schemes/science/form/pdf/A_2.pdf

Project contract : http://www.jica.go.jp/activities/schemes/science/form/pdf/B_1.pdf

Here explains the Agreement and project contract.

(1) The Agreement

The Agreement is signed between the principal investigator's institution and JICA to stipulate the both parties' duties and responsibilities. The responsibilities of the principal investigator's institution include: dispatch of Japanese researchers to the recipient country, invitation of the recipient country's researchers to Japan, procurement of machinery and equipment and workplace health and safety promotion. In practice, although consideration is given to the both organizations' rules and regulations including those on accounting, where the principal investigator's institution carries out its responsibilities, the organization's rules and regulations apply to such activities. Any intellectual property rights arising from the project shall belong not to JICA but to the research institute concerned.

(2) Preparing a project plan

In launching a project, the both parties discuss to prepare a comprehensive project plan and annual project plan including budget. Based on the annual plan, a review is performed to ascertain the progress of the project in the middle of the project and to revise the plan accordingly. Although it is called “annual” plan, a period covered in the annual plan is not necessarily limited to one fiscal year and can be over several fiscal years. Where a project contract includes the procurement of machinery and equipment, ensure that a proposed delivery date falls within the project period covered in the annual plan.

(3) Project contract

The project contract stipulates the content of a project and who is responsible for expenses and accounting, and is signed for every annual plan between JICA and the principal investigator's institution. Expenses may be incurred only after the project contract is signed. The period to be described in annual plan is not necessarily limited to one fiscal year and the project contract can be signed for a period of several fiscal years.

Based on the Agreement and project contract signed, the principal investigator's institution shall incur expenses and settle them within the project contract period in accordance with the organization's rules and regulations. The research institute can receive advance payments for its estimated expenses from JICA when it is halfway through the contract period (The first advance payment may be up to the half of the contract amount). The principal investigator's institution is responsible for managing and accounting for the advance payments received with documentary evidence (e.g. receipts). The organization is required to submit a report on spending, supporting evidence (e.g. copy or certified copy of original documents, etc.) to JICA. For rules and regulations concerning administration, such as expenditure items, estimation, advance payment based on the estimate, settlement, etc., see “SATREPS Jigyo Keiyaku Guideline (only in Japanese)” on the JICA's website:

http://www.jica.go.jp/activities/schemes/science/form/pdf/manual_contract.pdf

(4) The limit of project budget

The maximum expenditure limit is JPY60 million per annum per project. This includes spending regarding the dispatch of overseas researchers (short and long term), acceptance of foreign researchers, costs associated with the provision of machinery and equipment (e.g. purchase cost, transportation to destination, insurance premium, the procurement of machinery and equipment in the recipient country, etc.), direct administrative cost and costs of local research activities which are managed by project coordinators.

However, costs concerning the dispatch of project coordinators and that of research groups (for the D/D study, operation guidance, mid-term review, terminal evaluation, etc.) are not included in the above-mentioned amount, and JICA directly bears the expenditures as need be.

(*For project coordinator, see Section 6.)

(5) Expenses that may be incurred

The contract amount as agreed on the project contract may be mainly used to cover expenditures on joint research in the recipient country. Of costs of activities towards successful joint research as described in the R/D agreed between JICA and the research institute in the recipient country and the R/D-based comprehensive plan or annual plan, 1) costs of the dispatch of overseas researchers (Japanese researchers) for overseas research¹⁵, 2) costs of acceptance of foreign researchers (researchers in the recipient country), 3) costs of supplying machinery and equipment needed for joint research and 4) direct administrative cost in Japan can be covered by the amount contracted under the project contract (Table 4)

1. Costs of the dispatch of Japanese researchers for overseas research ¹⁵ from Japan to recipient country	Air fare, daily allowance, accommodation cost, sundry expenses, etc. (For those who are dispatched for more than one year, travel cost for dispatch and return, transfer allowance, other allowances, etc.)
2. Costs of acceptance of foreign researchers (researchers in the recipient country)	Air fare, daily allowance, accommodation cost, training expenses, etc. Acceptance period is classified into two: short-term (less than one year) and long term (one year and over). ¹⁶
3. Costs of supplying machinery and equipment needed for joint research	Purchase cost, transportation cost and cost for set-up and adjustment. Machinery and equipment to be used in Japan are not included, and the costs are covered under the JST's Contract Research Agreement, etc.
4. Administrative cost in Japan	Labor costs of part-time administrative workers, the cost of office supplies, etc. (excluding expenditures on research supplies).

Table 4. Expenditures to be shouldered by JICA

(6) The principles of the recipient country's responsibility to shoulder expenses

With focus on the recipient country's self-help efforts and sustainable development after the project is completed, ODA projects generally require the recipient country to shoulder certain expenditures. Please note that, in line with these practices, JICA does not offer financial support for all expenses in this program, which is conducted as part of international cooperation through ODA, but requires the recipient country to shoulder some expenses to promote its self-help efforts. Examples of expenditures to be shouldered by the recipient country are as follows:

- a) Labor costs of the researchers at research institute(s) in the recipient country and the related parties, and staff employed directly by the research institute(s).
- b) Rent and utility cost of project office.

¹⁵ Undergraduates and postgraduates cannot be dispatched as overseas researchers to a beneficiary country even if he or she is a member of Japanese research team.

¹⁶ Since foreign researchers (on short- and long-term dispatch) shall not be accepted beyond the joint research period (i.e. project implementation period as described in the R/D), the principal investigator's institution is kindly requested to carefully prepare acceptance of foreign researchers from the planning phase.

- c) Transportation fees, travel expenses (daily allowance and accommodation cost) and daily allowance for attending a meeting arising from the domestic business trips required for regular work or research by researchers at the research institute(s) and the related parties in the recipient country.
- d) Costs of equipment, office supplies and facilities used for research activities, and costs of the operation and maintenance of machinery and equipment supplied.

Note that JICA requests the recipient country that it should shoulder expenses for facilities and equipment needed for research and utilize existing facilities and equipment, in order to inject resources on key focus areas.

(7) Expense management

With regard to ODA project expenses, except for expenses in the recipient country that JICA shoulders, in accordance with the Agreement signed between the Japanese research institute and JICA, costs of execution of the project contract to be shouldered by the Japanese research institute are managed by the principal investigator's institution.

In JICA's ODA technical cooperation projects, no fund is directly given to the recipient country, and no financial assistance is given to such activities by research institutes in the recipient country that are not described in the signed comprehensive plan and/or annual plan.

Especially, since there has been some misunderstanding of JICA's policy of not directly giving project funds to research institutes in the recipient country, please ensure that the partner country is given an explanation beforehand.

6. Project coordinator

JICA generally invites the public to apply for the position of project coordinator, and ensure that the selected project coordinators start working at the earliest possible date after the R/D is signed.

Project coordinator's responsibilities include: expense management (including budget implementation) in the recipient country as described earlier, arrangements with governments in the recipient country regarding the dispatch of overseas researchers (Japanese researchers) and acceptance of foreign researchers (researchers in the recipient country) and communication with the local JICA office regarding the procurement of machinery and equipment. The project coordinator is a member of the Japanese project team working together with researchers and those engaged in joint research, while playing an important role in managing expenses in the recipient country. JICA requires the project coordinator to share information with a representative of researchers and other team members to ensure that the project is conducted smoothly and properly.

7. Project evaluation

As shown in Figure 2 on page 6, the technical cooperation project is monitored on a regular basis to check the progress and is reviewed jointly with the recipient country's related parties during the project and when the project is completed (i.e. usually three weeks to two months prior to the completion of the project). The evaluations are conducted by JICA overseas staff members in the recipient country or a group of evaluators who are sent from Japan. In either case, since the evaluations of technical cooperation project (i.e. mid-term review and ex-post evaluation) are conducted as part of operations management, they are performed with help from the related Japanese research institutes and research institutes in the recipient country. Note that JICA cooperates with JST in evaluating projects in this program.

For evaluation of other JICA projects, see the following website:

<http://www.jica.go.jp/activities/evaluation/guideline/> (Japanese)

8. Contact concerning ODA

(1) JICA headquarters

Office for Science and Technology Cooperation of the JICA headquarters acts as a point of contact for inquiries concerning this project. For inquiries on framework of ODA technical cooperation, please contact:

Office for Science and Technology Cooperation, Japan International Cooperation Agency (JICA)
E-mail : eigst@jica.go.jp

(2) JICA: domestic and overseas offices

A list of domestic offices

<http://www.jica.go.jp/about/structure/domestic/index.html> (Japanese)
<http://www.jica.go.jp/english/about/organization/domestic/index.html> (English)

A list of overseas offices

<http://www.jica.go.jp/about/structure/overseas/index.html> (Japanese)
<http://www.jica.go.jp/english/about/organization/overseas/index.html> (English)

Before contacting us, it will be helpful for you to clarify your research concept and plan through discussions with researchers in the beneficiary country, so that we can deal with your query promptly and efficiently. Please note that JICA overseas offices do not respond to inquiries on the content of public invitations.

(3) Useful websites on ODA and technical cooperation

Ministry of Foreign Affairs of Japan - ODA

<http://www.mofa.go.jp/mofaj/gaiko/oda/index.html>

“ODA Kunibetsu Chiikibetsu Seisaku/Joho” (policy and information on ODA by country and region) (Only in Japanese)

(The website offers information for you to check whether or not your research field is in line with Japan’s ODA policy in the beneficiary country and related region.)

<http://www.mofa.go.jp/mofaj/gaiko/oda/region/index.html>

“JICA “Technical cooperation project”” (the website explains JICA ODA technical cooperation projects in general.)

<http://www.jica.go.jp/project/index.html>

“JICA Science and Technology Cooperation on Global Issues” (including SATREPS)

<http://www.jica.go.jp/activities/schemes/science/index.html>

“JICA Toshokan Zousho Kensaku” (JICA Library search)

(When you search by project name, Adobe PDF documents on SATREPS report publications are returned in the search result.)

<http://libopac.jica.go.jp/>

Terminology of ODA

Ministry and agency responsible for ODA:

The partner/requesting country's ministry and agency responsible for international assistance. The ministry and agency responsible for ODA differ depending on country, - for instance, the ministry of foreign affairs, the ministry of finance, the ministry of planning, etc.-

Request for technical cooperation:

A request from the government wishing to obtain technical cooperation from JICA (the ministry and agency responsible for ODA) to the government of Japan. The ministry of foreign affairs of Japan and JICA receive requests for technical projects expected to be launched for the next fiscal year onwards. The request for technical cooperation from the requesting country's government is submitted to the ministry of foreign affairs in Japan through the Embassy of Japan in the requesting country.

International agreement:

An agreement that is entered under international law by country or international organization as actor, establishing the respective parties' rights and obligations. The international agreement is classified into two: "a treaty" that has to be ratified by the national Diet and "an administrative arrangement" that is closed only by the government to "manage foreign affairs". In general, the international agreement has to be approved by the cabinet. In addition to the official international agreement mentioned above, those agreed by the ministry of foreign affairs without the cabinet's approval are also considered as a kind of the international agreement in practice, and this is the international agreement referred to in this program.

Technical cooperation project:

Activities that aims to address issues in developing countries and are conducted by combining three cooperation tools, i.e. "expert dispatch", "acceptance of trainees" and "provision of machinery and equipment", as a project within a certain timeframe to achieve objectives set.

Expert dispatch:

Dispatch of personnel from Japan to the recipient country to guide counterparts (administrators, engineers related to technical cooperation project) in the transfer of technology, policy and project management and so forth. In this program, Japanese researchers who conduct research in the recipient country as JICA experts are referred to as "overseas researchers", and those who are dispatched for a period exceeding one year per dispatch (i.e. From departure date to return date) are referred to as "long-term overseas researchers" and those who are dispatched for a period not exceeding one year as "short-term overseas researchers". Procedures concerning the dispatch of short-term overseas researchers are taken by the principal investigator's institution (Expenses for dispatching short-term overseas researcher are included in the contract amount described in the project contract signed between JICA and the research institute). However, procedures for dispatching long-term overseas researchers are taken directly by JICA (and expenses for their dispatch are not included in the contract amount described in the project contract signed between the parties concerned).

Acceptance of trainees:

A form of capacity development initiative on the transfer of expertise and technology in various fields through acceptance of counterparts from developing countries as trainees in Japan or a third country. In this SATREPS program, researchers invited for joint research from recipient countries are referred to as "foreign researchers", who are accepted as JICA trainees.

Ex-ante evaluation:

Evaluation on the appropriateness of the proposed cooperation, which is conducted to examine priorities and necessities prior to the commencement of cooperation and to specify the content of cooperation and clarify expected outcome. Evaluation indicators set in ex-ante evaluation are used as criteria to measure the progress and effects of the cooperation throughout the life of a project.

Local cost:

Costs to be shouldered by the recipient country in implementing and managing the cooperation project. Specifically, local cost includes, but not limited to, personnel expenses, land acquisition cost, transportation cost concerning machinery and equipment provided, recurrent cost (i.e. the regular cost incurred repeatedly, - for instance, costs of the operation and management of facilities built or machinery and equipment provided in the course of cooperation, or employment costs.)

Capacity development (CD) :

Developing countries' efforts to strengthen their abilities (capacity) to address their respective

development issues. JICA serves as a facilitator that supports developing countries' capacity development.

<http://libopac.jica.go.jp/>

For instance, type in “capacity” in the above-mentioned JICA library search, you will get results containing the word, including the “Capacity Assessment handbook” (only in Japanese) as shown below.

<http://libopac.jica.go.jp/images/report/P0000245021.html>

V. Considerations when submitting an application

A principal investigator applying for a JST project must follow a training program in research ethics at his or her affiliated institution (or a similar program such as the CITI e-learning program) during the period for submission of applications or within 1 month of submission, then submit a declaration using the following form, or, if an e-learning program was followed, submit a certificate confirming that he or she has completed the course. Applicants who completed such a course at their institution before the period for submission of applications started may submit a declaration instead. Applicants who completed the CITI course before the period for submission of applications started should submit a certificate confirming completion of the course. If no declaration or certificate is submitted, the application will be considered non-compliant, and assessment halted. Contact JST if there are problems with taking a course at your affiliated institution,

<u>DECLARATION OF RESEARCH INTEGRITY</u>	
<p>To: the President of the Japan Science and Technology Agency</p> <p>I shall observe the Guideline for Scientific Misconduct (decided upon by the Minister of Education, Culture, Sports, Science and Technology on August 26, 2014) in applying to participate in the Science and Technology Research Partnership for Sustainable Development (SATREPS).</p> <p>In particular, I hereby declare that I have completed a training course on research integrity at the institution to which I am affiliated, and that I shall not carry out any misconduct in the course of my research.</p>	
Date:	<div style="text-align: center;"> <div style="border-bottom: 1px solid black; width: 100px; display: inline-block;"></div> / <div style="border-bottom: 1px solid black; width: 100px; display: inline-block;"></div> / <div style="border-bottom: 1px solid black; width: 100px; display: inline-block;"></div> (DD/MM/YYYY) </div>
Name of institution of affiliation:	<div style="border-bottom: 1px solid black; width: 100%;"></div>
Name of department of affiliation:	<div style="border-bottom: 1px solid black; width: 100%;"></div>
Title:	<div style="border-bottom: 1px solid black; width: 100%;"></div>
Signature:	<div style="border-bottom: 1px solid black; width: 100%;"></div>
Print Name:	<div style="border-bottom: 1px solid black; width: 100%;"></div>

Contact information:

Office of Research Integrity
 Department of General Affairs
 Japan Science and Technology Agency
 E-mail: ken_kan[at]jst.go.jp
 (replace “[at]” with the @ character before sending)

Address for declaration/training certificate:

Research Partnership for Sustainable Development Group
 Department of International Affairs
 Japan Science and Technology Agency
 K's Gobancho, 7, Gobancho, Chiyoda-ku, Tokyo, 102-0076, Japan

The following sections in this part of the Guideline (V.) are only available in Japanese. Before submitting an application, applicants who do not read Japanese are expected to familiarize themselves with the content with the assistance of a research collaborator or member of their institute's staff who is proficient in Japanese.

1. 研究提案書類記載事項等の情報の取扱い
(Handling of information included in the research proposal documents)
2. 不合理な重複及び過度の集中
(Unjustifiable overlaps or excessive concentration)
3. J S T 委託研究費及び J I C A 事業契約経費の管理
(Control of JST contract expenses and JICA project contract costs)
4. J S T 委託契約による研究活動の不正行為に対する措置
(Measures against misconduct in research under JST research agreements)
5. 研究機関における管理監査体制について
(Administrative audit system at research institutions)
6. その他
(Other considerations)

Q&A

For questions about the Cross-ministerial R&D Management System (e-Rad), including registration of affiliated research institutions or researchers, and instructions for use of e-Rad, visit the e-Rad portal site:

<http://www.e-rad.go.jp/> (Japanese)

1. Q&A about the SATREPS program objectives and purposes

Q: How many projects have been selected so far, and what sort of projects are they?

A: 12 projects were selected in FY 2008, 20 in FY 2009, 17 in FY 2010, 10 in FY 2011, 8 in FY 2012, 10 in FY 2013, and 10 in FY 2014, giving a total of 87 international joint research projects. Details of these projects are given in the SATREPS brochure and at the following website:

<http://www.jst.go.jp/global/english/kadai/index.html>

Q: What are the main changes in the FY 2015 Invitation for Research Proposals compared to the previous FY?

A: The main changes in the FY 2015 Invitation for Research Proposals are listed at the following website:

<http://www.jst.go.jp/global/koubo.html> (Japanese)

Q: How should I gain an understanding of the developing country's needs?

A: Under the SATREPS program, one of the key perspectives applied when selecting projects is whether a research proposal is in line with the needs of the developing country. Proposals are expected to show a proper understanding of the partner country needs, obtained through means such as prior contact and interaction in a research context. One useful reference is the Country Assistance Policy which has been formulated for some countries. Country Assistance Policies are published on the MOFA website:

<http://www.mofa.go.jp/policy/oda/assistance/index2.html>

Furthermore, in order to conduct international joint research with the aim of future application of outcomes, a systematic approach is expected in the partner country, bringing in partner country government agencies, etc. The selection process takes into account whether the structure is adequate for that purpose. When setting up a project, we also recommend liaising in advance with the Japanese embassy in the partner country and with the local JICA office.

Q: Does having the project linked to ODA mean that the principal investigator needs to be stationed in the partner country (long term overseas dispatch)?

A: The principal investigator does not necessarily need to be stationed in the partner country. Technical cooperation projects allow for flexibility, including dispatch on a short-term shuttle basis. When planning the dispatch of researchers to the partner country, take into consideration that there is a requirement that a member (including project coordinator) of one or other of the teams conducting the joint research must be dispatched to the partner country in order for expenses to be paid for research activity in the partner country, and that in addition, the Japan-side researchers are required to contribute through the joint research to developing the partner country's self-reliant research and capacity development, and that as project director the principal investigator is responsible for the dispatch of researchers overseas as part of the international joint research.

Q: Is it necessary to station Japan-side research participants other than the principal investigator in the partner country?

A: It is not necessarily the case that Japan-side researchers have to be stationed in the partner country. Nevertheless, in order for the joint research to proceed smoothly in the partner country (a developing country), and because the purpose of the project is capacity development of the developing country through joint research, if researchers are not stationed overseas, it is desirable that they are regularly dispatched to the partner country and that the emphasis is on the research overseas, such as by spending three months in the partner country followed by one month back in Japan. Projects are selected through an overall evaluation that includes consideration of the Japan-side implementation structure described in the proposal.

Q: Can a researcher affiliated with a research institution in a third country (not the partner country) participate in the project?

A: In principle, a researcher affiliated with a research institution located in a third country cannot participate in the project. However, such researchers can be invited to workshops, etc. Moreover it is possible for such a researcher to become affiliated (as a visiting researcher, etc.) with an institution participating in the joint research (including the principal investigator's institution), and participate in the research under the auspices of that institution.

Q: Is there a restriction on the number of SATREPS program applications that can be made per institution?

A: There is no restriction on the number of applications that can be made per institution. If multiple applications are made from a single institution, each set of research proposal documents is required to include a separate written approval from the director of the institution (president or chair of the board, etc.).

2. Q&A about operation of the parts of the program handled mainly by JST (Q&A mainly about selection and implementation of research within Japan)

(1) Application requirements

Q: What requirements do private-sector companies need to satisfy to apply for the program?

A: The requirements include the company being incorporated in Japan.

Q: Can a private-sector company be a principal investigator's institution?

A: Yes, it can. However, the following point needs to be taken into account.

- A company conducting activities with a public nature can become the principal investigator's institution for a project. Even if the company is not conducting activities with a public nature, it can still become the principal investigator's institution if it makes a joint proposal with a university or similar institution.

Q: What points need to be borne in mind when a private-sector company participates?

A: The following points need to be borne in mind.

- Before JST can conclude a Contract Research Agreement with a company or similar entity, it screens the company to determine whether the contract is possible and what sort of form the contract should take. As a result of this screening, JST may require compliance with a particular form of contractual relationship. If the company's state of finances is markedly unstable, the contract may be judged unfeasible, preventing the research project from being conducted at the proposed research institution. In such a case, the proposer may be required to take action such as reviewing the implementation structure.
- The SATREPS program is based on the premise of joint research with a partner country. In addition to implementing the research, there are requirements for publication of outcomes and sharing of intellectual assets, and for outgoing transfer of samples and information, etc. The company is requested to confirm in advance with the partner country side that entering into such a relationship with private-sector affiliated researchers is not a problem.
- Salary etc. for the person in charge of the research (principal investigator/lead joint researcher) cannot be covered as direct expenses.
- If certain conditions are satisfied, it is possible to cover salary etc. for other research participants (members involved with a specific research item).
- When using ODA costs to procure goods, in principle a competitive procurement process should be used (either bidding or comparative quotes), based on specifications that do not require specific brands.

Details are available at the following website under Contract Research Agreement Administrative Procedures (for private-sector companies).

<http://www.jst.go.jp/global/itaku.html> (Japanese)

Q: Can a post-doc submit an application as principal investigator?

A: A Post-doc cannot apply as principal investigator or lead joint researcher.

Q: Can post-doc students or graduate school or similar students participate in the research project?

A: Postdoctoral research fellows and graduate students can take on specific roles in the research project, and by being listed as research participants in the research plan documents, can participate as members in the project. Undergraduate students can also participate under similar conditions as part of the process of nurturing excellent researchers in Japan. Because of their status as students, graduate students and undergraduates cannot be dispatched to the partner country as overseas researchers using ODA costs, but if certain conditions are satisfied (concluding an employment contract with the affiliated institution, traveling together with an overseas researcher, etc.), it is possible to cover travel and the costs of employment of students as research assistants under JST contract research expenses. See the Contract Research Agreement Administrative Procedures etc. for details.

Q: Can a researcher who is not a Japanese national submit an application as principal investigator?

A: As long as he or she is affiliated with a research institution in Japan, a non-Japanese national researcher can apply as principal investigator. Participation as a research participant is also possible. Note that a non-Japanese national may not be eligible for the rights and exemptions applied to Japanese nationals under agreements with the partner country, including tax exemptions and legal immunity. This should be discussed separately with JICA before traveling to the partner country.

Q: Can a researcher who is not a Japanese national apply as an overseas researcher?

A: The SATREPS is based on Japan providing technical cooperation and building relationships with the partner country, so in principle, it assumes the dispatch of researchers who are Japanese nationals. Nevertheless, if there are no other researchers with specific skills required and a non-Japanese national is irreplaceable for the project, then that researcher may be dispatched as an overseas researcher as long as the partner country government accepts the dispatch. In such cases, the researcher can be dispatched under ODA costs (and in cases where dispatch as an overseas researcher is not possible, traveling to the partner country under JST contract research expenses is in principle possible, although the researcher may not be eligible for the rights and exemptions applied to Japanese nationals).

Q: Can researchers without a specific affiliation participate?

A: In principle, researchers without a specific affiliation cannot participate in the joint research. However it is possible for a participating institution (including the principal investigator's institution) to give affiliation status (visiting researcher, etc.) to the researcher so that he or she can participate in the research with that institution providing coverage and taking responsibility.

Q: On the premise that research will be implemented at the counterpart institution, can a Japanese national resident outside Japan submit an application as principal investigator?

A: In principle, this is not permitted. The program envisages a principal investigator based in Japan and the institution he or she is affiliated with conducting joint research with a principal investigator based in the partner country and the institution he or she is affiliated with.

Q: Can a part-time staff member (visiting researcher, etc.) submit an application as principal investigator?

A: This is possible if the researcher can provide an implementation structure at a research institution in Japan for the duration of the research period. Whether it is possible to make an agreement and sign a contract with the research institution for the part-time staff member to be principal investigator depends on the contractual relationship between the research institution and the part-time staff member.

Q: If the principal investigator moves to a different institution partway through the project term, can the research still continue?

A: Under the SATREPS program, in principle, the principal investigator's institution at the time of project selection is responsible for providing a research implementation structure based around the principal investigator for the duration of the research period. If unavoidable circumstances result in the principal investigator moving to a different institution, consideration needs to be given to a replacement of principal investigator within the principal investigator's institution originally selected.

It may also be possible to continue with the research if the principal investigator's new institution is capable of continuing the research, including the relationship with the partner country side, without problem, and moreover, if it is possible to sign a Contract Research Agreement with JST, make the Agreement with JICA, and sign agreements (MOU etc.) with the counterpart institution. If the possibility of the principal investigator moving to a different institution arises, contact JST and JICA to discuss the issue.

Q: Do Forms 1-10 have to be completed in Japanese?

A: In principle, Forms 1-10 should be completed in Japanese. However, if that is problematic, English is acceptable. English-language copies of the application forms are posted on the English-language SATREPS website.

<http://www.jst.go.jp/global/english/koubo.html>

The research proposal forms must be submitted via e-Rad, the Cross-ministerial R&D Management System. This system has some sections that require entry in Japanese. For those sections, seek assistance from a Japanese speaker.

Interviews in the selection process are also in principle conducted in Japanese, but if that is problematic, English is acceptable.

(2) JST contract research expenses

Q: Are there restrictions on how JST contract research expenses can be used?

A: Details regarding contract research expenses are available at the following website under Contract Research Agreement Administrative Procedures.

<http://www.jst.go.jp/global/itaku.html> (Japanese)

(3) Implementation structure

Q: Can the implementation structure described in the research proposal documents be changed during interviews or after selection?

A: The selection process is based on the research proposal documents, so the structure should be given careful consideration when writing the research proposal, in order to ensure that no need for unnecessary changes arises. Adjustments etc. may be made if authorized by the program officer (PO), and changes may be requested during the process of JICA signing the R/D with the counterpart institution before commencing the international joint research.

(4) Research contracts

Q: Can the research contract with the lead joint researcher's institution in Japan be structured as subcontracting (see note) via the principal investigator's institution?

Note: Subcontracting in the research contract refers to a situation where only the principal investigator's institution signs a contract with JST, and a research contract is signed by that affiliated institution and the joint researcher's affiliated institution.

A: Under the SATREPS program, a subcontracting structure is not used for research contracts. JST concludes separate research contracts with the research institutions that the principal investigator and lead joint researcher are affiliated with.

3. Q&A about JICA/ODA (mainly Q&A about implementation of research in the partner country)

(1) Countries eligible for international joint research

Q: Is it possible to conduct joint research with multiple research institutions in the partner country?

A: Yes, it is possible to conduct joint research with multiple research institutions in a single partner country. In such cases, the names of all institutions must be listed in the ODA request form, and the main research institution for joint research in the partner country must be specified.

(2) ODA application by the partner country

Q: In addition to the proposal documents submitted to JST, is it necessary for the government agency handling ODA in the partner country, at the instigation of the counterpart research institution in the partner country, to make a request for the implementation of an ODA technical cooperation project (submit a request for cooperation)?

A: It is essential for the partner country side to submit a request for ODA, in addition to the proposal documents for a research project submitted to JST. Only projects where both the research proposal and the ODA request have been submitted are screened. If either of these documents is not received by the specified deadline, the project will be automatically excluded from selection.

Q: Is it necessary for the details of the technical cooperation project in the partner country to have already been fixed in the request form at the point that the proposal documents are submitted to JST?

A: You need to coordinate the content of the request from the partner country before the request form is submitted. In particular, as noted on the proposal forms, there needs to be consensus between the Japan-side and the partner country side regarding the proposed research project title (English), research objectives, research outcome targets, research plans and implementation of plans, implementation structure, approximate amounts and details of machinery and equipment, personnel, etc. to be used, and research period, etc. After provisional selection, JICA will finalize detailed plans for the purpose of signing the R/D with the partner country institution. Please understand that as a result of that process, you may be required to modify the research plans presented in the proposal. The research project title (English) has to be the same as the project name on the ODA technical cooperation project request form. Ensure that there is sufficient coordination with the counterpart institution on this point.

Q: Where can I obtain the ODA request form?

A: A template for the ODA request form is available on the following JICA website, but the actual ODA request form and in-country deadlines are fixed by the government agency handling ODA in each country. For details, the counterpart institution should contact the government agency that covers it, or the government agency handling ODA.

<http://www.jica.go.jp/activities/schemes/science/faq/answer.html#al-3> (in Japanese)

Q: Has JICA informed each developing country of the purposes and structure of the SATREPS program? Also, does the applicant in Japan need to be able to respond to the partner country's inquiries about procedures, etc.?

A: MOFA/JICA has informed the government agency handling ODA in each of the developing countries eligible for the program. However, due to individual circumstances within each country, that information may not have reached as far as the partner country researchers who are potential research counterparts. The applicant should be aware of that situation and ensure sufficient coordination in advance with the partner country researcher (and his or her affiliated institution).

(3) Eligible counterpart institutions, partner country researchers; relationships

Q: Are companies and NGOs in other countries able to participate in a project?

A: The SATREPS program is implemented as technical cooperation projects on the basis of formal requests from the partner country and international commitments between the partner country and Japan. NGOs and simple private-sector companies without government ownership are not covered by the program. However, this does not prevent the participation of private-sector companies and NGOs in the research as partners collaborating within the partner country when the partner country side research institution is a government entity.

Q: Are international agencies able to participate in a project?

A: Regional international agencies in the developing country are not excluded from participating, but as explained in the Q&A regarding the ODA request form submission process, pre-conditions include submission to the Japanese embassy of an ODA request by the formal route via the partner country government agency handling ODA and the partner country government agency responsible for facilitating operation of the international agencies, providing them with special privileges and immunities, and pledging tax exemptions and other special rights and exemptions for the SATREPS program experts and machinery and equipment, etc. They also include securing the entity's own personnel and costs required to implement the joint research. Handling of intellectual assets also needs to be taken into account.

Q: If the principal investigator's institution in Japan has already signed agreements with the partner country government or research institution, is there any need for JICA to sign a new agreement of

some form with the partner country side in order to implement the project?

A: Yes, it is necessary. The SATREPS program is a collaborative program linked with ODA, and projects are implemented as JICA technical cooperation projects based on international commitments between the two countries. Based on these international commitments, JICA must sign documents such as an R/D with the partner country side.

(4) ODA project expenses, etc.

Q: What level of authority is required for signing the Agreement and project contract between JICA and the principal investigator's institution?

A: For the main Agreement, which only needs to be signed once on the first occasion for each principal investigator's institution, we envisage the Agreement being signed at the institute's top level (president or chair of the board of a university), and by the president of JICA. For the annexes to the Agreement (signed for each project), we envisage them being signed by the head of research at the principal investigator's institution (dean, etc.) and by JICA's director of the department in charge of the project. For the project contract, we envisage it being signed by a director of the principal investigator's institution with authority for contracts, and by JICA's vice-president in charge of finance and accounting.

Q: Why are clinical trials and medical practice not eligible for joint research? (Please give more details.)

A: Refer to the following JICA Policy.

a) Clinical trials/clinical studies/clinical research

Clinical trials with the aim of development, manufacture, or sale of pharmaceuticals or medical devices, or clinical studies/clinical research that is invasive, or infringes privacy are not acceptable as JICA projects. It is however possible for JICA projects to include training, instruction, or counseling of workers (medical staff, etc.) involved in such activities.

b) Handling of medical practices*

Medical practices are not acceptable as JICA projects (the reasons are that researchers are not sent abroad with the aim of conducting medical practices, are not licensed as clinicians in the host country, and it is not appropriate for JICA to take responsibility for medical practice).

* What is considered medical practice differs according to each country's circumstances. Even if something is considered to be medical practice, JICA will give approval (with conditions concerning safety and responsibility) if consulted in advance for practices such as blood sample collection, fecal examination, and measurement of body temperature or blood pressure that are not significantly risky. Ask JICA if clarification is required.

c) Safety measures and ethical considerations for research projects

Research projects must comply with ethical guidelines in Japan and in the partner country. They must be assessed by an ethics committee in the partner country, and the safety of all persons directly or indirectly involved in the project, together with safety for the environment, must be secured before the project commences.

Appendix 1. Countries eligible for the SATREPS program

No.	Region	Name of Country	No.	Region	Name of Country	No.	Region	Name of Country
1	Asia	India	42	Africa	Republic of Angola	93	Latin America and the Caribbean	Argentine Republic
2		Republic of Indonesia	43		People's Democratic Republic of Algeria	94		Antigua and Barbuda
3		Kingdom of Cambodia	44		Republic of Uganda	95		Oriental Republic of Uruguay
4		Democratic Socialist Republic of Sri Lanka	45		Arab Republic of Egypt	96		Republic of Ecuador
5		Kingdom of Thailand	46		Federal Democratic Republic of Ethiopia	97		Republic of El Salvador
6		Nepal	47		State of Eritrea	98		Republic of Guyana
7		Islamic Republic of Pakistan	48		Republic of Ghana	99		Republic of Cuba
8		People's Republic of Bangladesh	49		Republic of Cape Verde	100		Republic of Guatemala
9		The Democratic Republic of Timor-Leste	50		Gabonese Republic	101		Grenada
10		Republic of the Philippines	51		Republic of Cameroon	102		Republic of Costa Rica
11		Kingdom of Bhutan	52		Republic of The Gambia	103		Republic of Colombia
12		Socialist Republic of Viet Nam	53		Republic of The Guinea	104		Jamaica
13		Malaysia	54		Republic of Guinea-Bissau	105		Republic of Suriname
14		Union of Myanmar	55		Republic of Kenya	106		Saint Christopher and Nevis
15		Republic of Maldives	56		Republic of Cote d'Ivoire	107		Saint Vincent and the Grenadines
16		Mongolia	57		Union of Comoros	108		Saint Lucia
17		Lao People's Democratic Republic	58		Republic of Congo	109		Republic of Chile
18	Middle East	Islamic Republic of Afghanistan	59		Democratic Republic of the Congo	110		Commonwealth of Dominica
19		Republic of Yemen	60		Democratic Republic of Sao Tome and Principe	111		Dominican Republic
20		Republic of Iraq	61		Republic of Zambia	112		Republic of Nicaragua
21		Islamic Republic of Iran	62		Republic of Sierra Leone	113		Republic of Haiti
22		Republic of Turkey	63		Republic of Djibouti	114		Republic of Panama
23		Palestine Liberation Organization	64		Republic of Zimbabwe	115		Republic of Paraguay
24		Hashemite Kingdom of Jordan	65		The Republic of the Sudan	116		Federative Republic of Brazil
25		Republic of Lebanon	66		Kingdom of Swaziland	117		Bolivarian Republic of Venezuela
26	Europe	Republic of Azerbaijan	67		Republic of Seychelles	118	Central America and the Caribbean	Belize
27		Republic of Armenia	68		Republic of Equatorial Guinea	119		Republic of Peru
28		Republic of Albania	69		Republic of Senegal	120		Republic of Bolivia
29		Ukraine	70		United Republic of Tanzania	121		Republic of Honduras
30		Republic of Uzbekistan	71		Republic of Chad	122		United Mexican States
31		Republic of Kazakhstan	72		Republic of Tunisia	123	Pacific Islands	Republic of Kiribati
32		Kyrgyz Republic	73		Republic of Togo	124		Cook Islands
33		Georgia	74		Federal Republic of Nigeria	125		Independent State of Samoa
34		Republic of Kosovo	75		Republic of Namibia	126		Solomon Islands
35		Republic of Tajikistan	76		Republic of Niger	127		Tuvalu
36		Turkmenistan	77		Burkina Faso	128		Kingdom of Tonga
37		Republic of Serbia	78		Republic of Burundi	129		Republic of Nauru
38		Bosnia and Herzegovina	79		Republic of Benin	130		Niue
39		Former Yugoslav Republic of Macedonia	80		Republic of Botswana	131		Republic of Vanuatu
40		Republic of Moldova	81		Republic of Madagascar	132		Independent State of Papua New Guinea
41		Montenegro	82		Republic of Malawi	133		Republic of Palau
			83		Republic of Mali	134		Republic of the Fiji Islands
			84		Republic of South Africa	135		Republic of the Marshall Islands
			85		Republic of South Sudan	136		Federated States of Micronesia
			86		Republic of Mauritius			
			87		Islamic Republic of Mauritania			
			88		Republic of Mozambique			
			89		Kingdom of Morocco			
			90		Republic of Liberia			
			91		Republic of Rwanda			
			92		Kingdom of Lesotho			

Note: This table is subject to change depending on a country's situation.

Appendix 2. Instructions for research proposal forms

There is no overall restriction on the number of pages in the research proposal documents. However, a clearly legible font size should be selected (about 10.5 points on Windows) to ensure legibility when printed, and the content should be clear and simple, but cover all essential points.

Please add a running page number at the bottom of each page.

The comments, explanations, and examples in the forms are not needed when the forms are submitted. Please delete them before submission.

The research proposal forms, Instructions on how to formulate the Target Outcomes Sheet in Form 2 (only in Japanese), and an instruction manual for e-Rad (additional instructions for submitting SATREPS proposals) (only in Japanese) are available from the following website.

<http://www.jst.go.jp/global/koubo.html> (Japanese)
<http://www.jst.go.jp/global/english/koubo.html> (English)

Form 1: Proposal

- The information given in Form 1 will be published if the project is selected. The completed form should fit on no more than 2-3 sheets of A4 paper.
- Items (a)-(j) need to be directly entered into e-Rad.
- If the proposal includes the participation of multiple collaborating institutions in Japan and/or counterpart institutions, the names and roles of all the institutions involved must be included in the Implementation Structure Concept Diagram on the next page.

Research field/area (Infectious Diseases Control)

(a) Title of proposed research project (Japanese)	Do not include a subtitle in the proposed research project's title.
(English)	Liaise carefully and agree choice of English title of research project with the counterpart institution. Make sure to use the same title as the counterpart's ODA technical cooperation project application.
(b) Research period	____ years Give the period of joint research agreed with the counterpart institution. It does not include the time leading up to the signing of the R/D (about six months).
(c) Total research expenses (Japan: JST contract research expenses)	Give in thousand yen units (round to the nearest 1,000). Total ____,000 yen (including indirect expenses)
(ODA project expenses)	Total ____,000 yen (no indirect expenses)
(d) Principal investigator's name and title	Give the principal investigator's name and title.
(e) Principal investigator's affiliation	Give full title of affiliated institution for principal investigator, including the name of institute, department/laboratory.
(f) Collaborating institutions in Japan	Give full titles of affiliated institutions for all researchers, including the name of institute, department/laboratory.
(g) Counterpart country	Give the name of the country in either Japanese or English. (If there is more than one partner country, list all countries with which an actual R/D will be signed.)
(h) Counterpart institution(s)	Give names of institutions in both Japanese and English. The Japanese rendering may be omitted if none exists (when completing the form in English). If there are multiple counterpart institutions, list the principal institution before the collaborating institutions.
(i) Project objective	(Approx. 120 words) * If responding in English, add a translation into Japanese (Max. 250 Japanese characters).
(j) Outline of project	(Approx. 120 words) * If responding in English, add a translation into Japanese (Max. 250 Japanese characters).

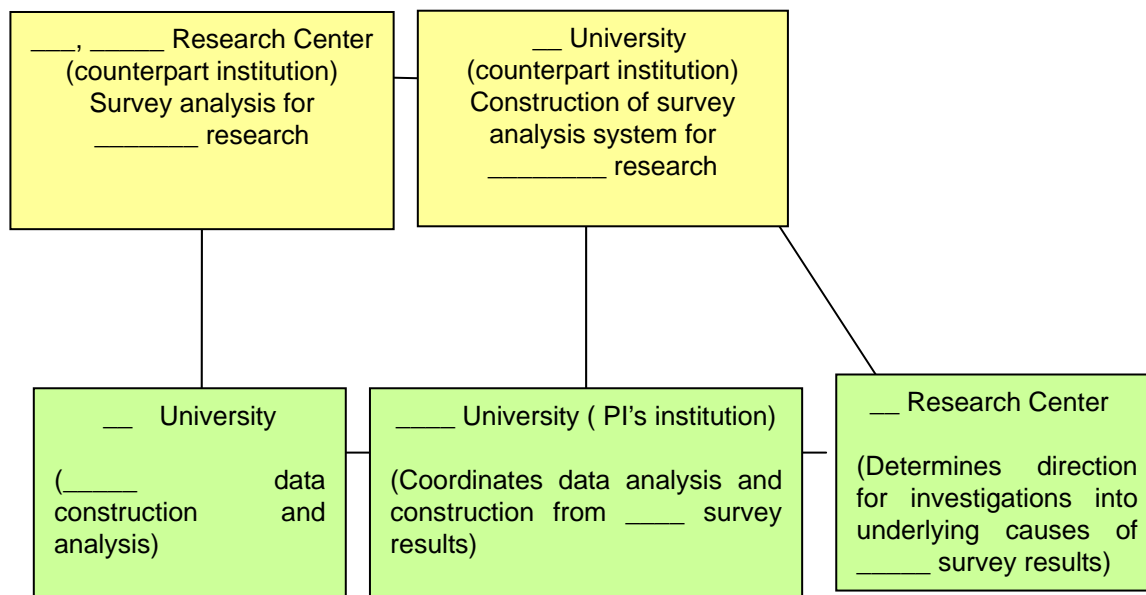
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Implementation Structure Concept Diagram

Provide a diagram of the implementation structure for the research theme.

Make sure to clearly show the division of roles between the Japanese institution and the counterpart institution, together with the structure of links between institutions.



Form 2: Research Theme Concept

1. Background to research

- Include figures or tables if necessary. Black-and-white copies are used for assessment, so make sure that any figures or tables are comprehensible without color.
- Form 2 must not exceed 10 pages of A4 paper. To ensure impartiality, forms exceeding 10 pages will be considered non-compliant, and excluded from assessment. Use of small print or small figures/tables to fit within the 10 page limit, or use of reduced-size (2-in-1) copies to fit two pages of information onto one page is not acceptable.

(1) Background to research theme that contributes to resolving global issue(s)

Specify the global issue (unresolved science and technology issue, and the socioeconomic disadvantages and international trends attributable to it) addressed by this research initiative. Also specify the role of the research initiative in contributing to the resolution of the issue, including the following perspectives.

- Significance of contribution to resolving the global issue
- Science and technology/academic creativity and novelty

(2) Partner country needs

Specify how the research initiative can contribute to meeting the needs of the partner country, including a description of current status and issues associated with the partner country's socioeconomic and science and technology background. Give a description of the structure and capacity etc. of the counterpart institution, and a description of the need for assistance and effectiveness of assistance. If Ministry of Foreign Affairs (MOFA) has published a Country Assistance Policy or Rolling Plan* for the partner country, describe how the research initiative is related to that policy or plan, taking into account consistency with the partner country's development strategy. If the project is also likely to make a contribution outside the partner country, describe that too.

*For details see the MOFA website, including the following pages:

Country Assistance Policies:

<http://www.mofa.go.jp/mofaj/gaiko/oda/region/index.html> (Japanese)

<http://www.mofa.go.jp/policy/oda/assistance/index2.html> (English)

ODA policies (Rolling Plans):

<http://www.mofa.go.jp/mofaj/gaiko/oda/seisaku/jigyuu.html> (Japanese)

<http://www.mofa.go.jp/policy/oda/policy.html> (English)

2. Research objectives

Specify the objectives of the research initiative.

- Also specify how application of outcomes of this research initiative is envisaged—including anticipated scientific and technical development, creation of new industries, and contributions to society attributable to the project within 5-10 years of the project termination. Include the following perspective as far as possible.

- Contributions to achieving Japan's major science and technology policies, such as policies set out in the 4th Science and Technology Basic Plan, etc.

* When making a research proposal that involves collaboration between industry, academia, and government, specify on Form 9 how the businesses involved envisage the project leading to application of outcomes. Submit Form 9 together with the other forms.

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3. Research outcome targets

Create a Target Outcomes Sheet for the proposed research project.

An explanation (in Japanese) of how to create a Target Outcomes Sheet can be downloaded from the following website, including a template and descriptions of each of the items.

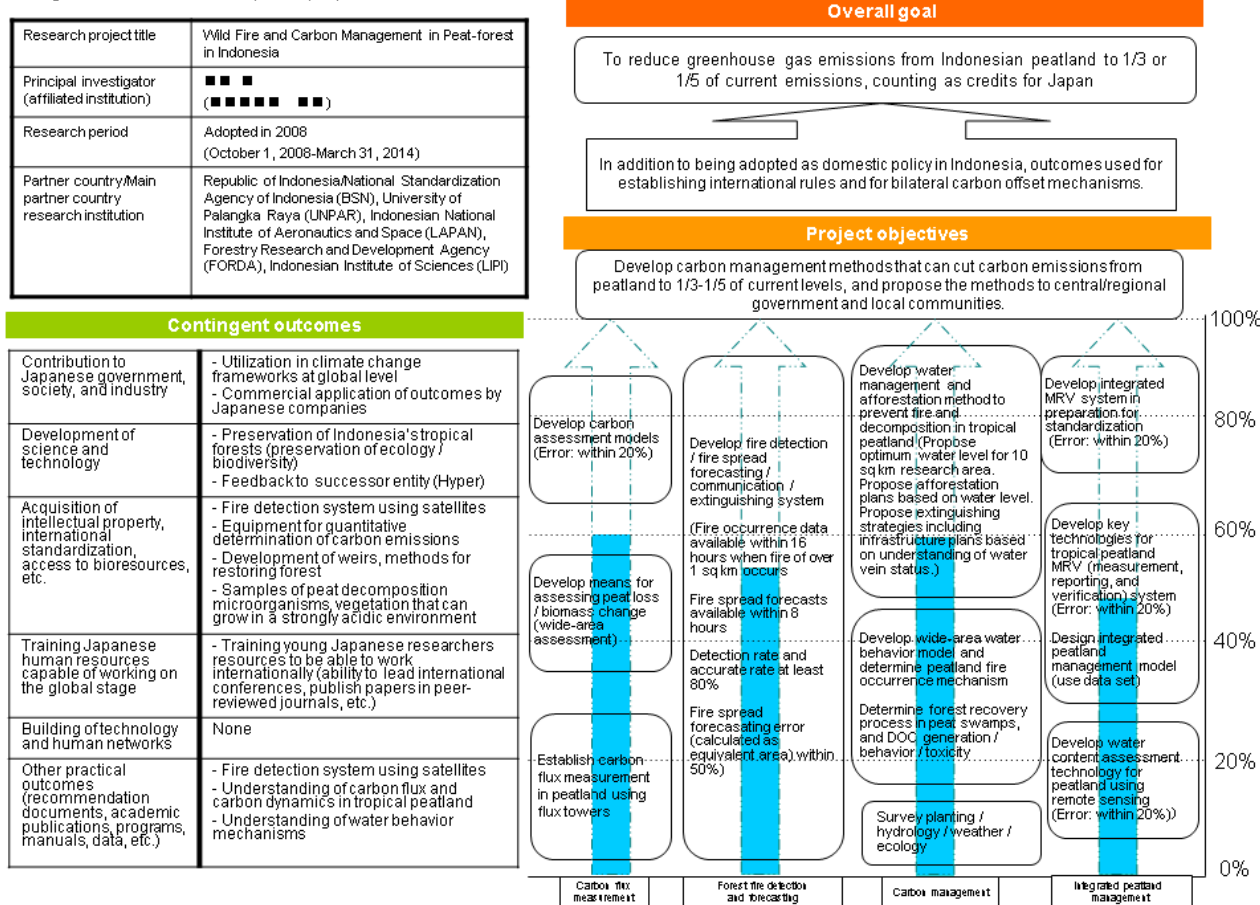
<http://www.jst.go.jp/global/koubo.html> (Japanese)

<http://www.jst.go.jp/global/english/koubo.html> (English)

After filling out the template, attach it as part of Form 2 like the example below (for format, use PDF etc.)

JST overall goal and project objectives, together with evaluation items for contingent outcomes
(Example)

Target Outcomes Sheet (example)



The body text should specify the target outcomes (knowledge, technology materials, systems, recommendations, etc.) that this research is attempting to achieve, and give quantitative specifications (for functions, systems, economy, etc.). The items in the description should be consistent with those in the Target Outcomes Sheet, with explanations added where necessary.

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4. Research plans and implementation of plans**(1) Overall research activities and research plans (Use the form below)**

Indicate the outline framework of a time schedule for achieving the research outcome targets set out in Section 3. “Research outcome targets”, giving research items and milestones (timing and judgment criteria for assessing the level of achievement of the research partway through the research period). Include plans for application of outcomes and for capacity development (developing organizational and individual capacity at Japanese and counterpart institutions; building external links).

- Describe currently-expected issues, together with solutions proposed for such issues in order to attain the research objectives set out in Section 2. “Research objectives”.

Research item/activity	Year 1	Year 2	Year 3	Year 4	Year 5
1. Research item 1 (Outcome 1)		Realization of _____			
1-1 Research activity 1-1 (Activity 1-1)	←		→	Achievement of _____	
1-2 Research activity 1-2 (Activity 1-2)			←		→
2. Research item 2 (Outcome 2)			Realization of _____		
2-1 Research activity 2-1 (Activity 2-1)	←			→	Development of _____
2-2 Research activity 2-2 (Activity 2-2)		←			→
3. Research item 3 (Outcome 3)		_____ scheme submission			
3-1 Research activity 3-1 (Activity 3-1)	←		→	Establishment of _____	
3-2 Research activity 3-2 (Activity 3-2)	←			→	Achievement of _____
3-3 Research activity 3-3 (Activity 3-3)			←		→

(2) Collaboration and division of functions with counterpart institution

- For each of the research items listed above, describe the roles of the Japanese institution and counterpart institution, and make clear which research activities are expected to be jointly implemented.

(3) Activity plan for application of outcomes**(3-a) Activity plan and feasibility for application of outcomes**

- Specify the methodology for application of outcomes, proposed schedule up to and including application of outcomes, and also the means and targets for application, and issues to be overcome in applying the research outcomes.

(3-b) Outreach activity plan for application of outcomes

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5. Technical cooperation project activity plan

(1) Partner country capacity development plan

- Describe policy and plans for capacity development at organizational, individual, and external link levels, including construction of links between the counterpart institution's research implementation structure and administrative entities and the private sector, and training and capacity development of researchers.

(2) Plan for visits to partner country

(2-a) Plan for visits by principal investigator in person

- Give information in this format: Year 1: __days x _ visits, Year 2: __days x _visits, ...

(2-b) Researchers stationed in partner country full-time (or close to full-time)

- Give information in this format: Name/affiliation/position/age/specialty, stationed for __ days per year.

(If there are multiple researchers in this category, give the same information for each researcher. If there are none, write "N/A".)

(2-c) Plan for visits by researchers other than those covered by (2-a),(2-b) above

- To the extent possible give plans for visits to the partner country (length of visit, number of people, etc.)

(3) Plan for inviting researchers from partner country to Japan

- To the extent possible give plans for inviting people from the partner country to Japan (length of visit, number of people, etc.)
- In particular, describe any plans for long-term visits as government-sponsored foreign students, JICA long-term trainees, or using similar schemes

(4) Plan for provision of machinery and equipment

- List the main items of machinery and equipment provided to the partner country, including their main specifications (differentiate between general purpose machinery and equipment and machinery and equipment requiring customization/special order), estimated price, country of purchase (differentiate between local purchases and purchases in Japan). Machinery and equipment maintenance (consumables, spare parts, inspection, adjustment, repair, etc.) and running costs (electricity/gas/water, raw materials, operator labor costs, etc.) should in principle be covered by the partner country.

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(5) Local costs

- Give plans and estimated budget for the essential research activity expenses in the partner country that require support from JICA (travel costs, workshop expenses, consumables, telecom and transportation costs). (Labor costs in the partner country are not covered. Please acquire a full understanding of the expenses that can be covered (p. 19-21) before completing this section.

(6) ODA self-evaluation of plans

- Provide a self-evaluation of the joint research plans described above, based on the five DAC criteria (relevance, effectiveness, efficiency, impact, and sustainability). Refer to the New JICA Guidelines for Project Evaluation at the following link.

<http://www.jica.go.jp/activities/evaluation/guideline/> (Japanese)

http://www.jica.go.jp/english/our_work/evaluation/tech_and_grant/guides/ (English)

6. Basis for research and state of preparations

(1) Current basis for research

(1-a) Research and research outcomes to date

- Give an outline and results etc. for domestic and international research outcomes, and of research by the research proposer in person (and if necessary, research participants), that will form the basis for the research initiative.

(1-b) List of academic papers and books (author, title, journal, volume/page/year of publication)

- Give details of recent books and papers published in academic journals etc. by researchers included in the implementation structure, focusing on important publications that are relevant to the proposal. Select up to 10 publications for the project as a whole, and list them in date order, with the most recent first.

(1-c) List of associated patents (application No./inventor/title/applicant/date of application)

- Give details of patents applied for recently by research participants, selecting important applications that are relevant to the proposal. Select up to 10 patents for the project as a whole.

(Continued on next page)

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(2) State of preparation in conjunction with counterpart institution

- Describe the construction of infrastructure at the counterpart institution, the basis of research by the counterpart institution that was the reason for choice of institution, the state of coordination with partner country's government agencies, etc., and the state of preparation for international joint research. If an agreement has already been signed with the counterpart institution, give details of the agreement and current contact and interaction with the institution.

(3) Ethical considerations

- State any requirement for inspection of compliance with ethical standards of the country where the research is implemented (partner country or Japan), and the status of any such inspection.

(4) Status of examination into handling of bioresources/intellectual property, etc.

- Give details of coordination with the counterpart institution regarding the ownership of rights to research outcomes, implementation of research outcomes, and incoming and outgoing material transfer, etc.

Form 3: Japanese Institution Implementation Structure

List the researchers expected to participate in the Japan-side research team, giving name, researcher ID No., affiliation, position, effort, and a brief outline of research responsibility.

Name (Researcher ID No. ^{*1})	Affiliated institution (country)	Current position, title, etc.	Age (Age as of April 1, 2015)	Effort ² (Proportion of time allocated)(%)	Research responsibility in project	Experience of working on SATREPS project (specify project)
_____ (XXXX XXXX)	_____ University _____ Faculty _____ Department	Professor		____%	Overall management of the research, _____	
_____ (XXXX XXXX)	_____ University	Associate Professor		____%	_____	
_____ (XXXX XXXX)	_____ Research Center	Research fellow		____%	_____	
Researcher A (XXXX XXXX ^{*3})	_____ University _____ Faculty _____ Department	Post-doc	^{*3}	____%	_____	

(Japan-side participants must be (1) affiliated with a research institute in Japan, and (2) not included in the list of members of the partner country's institution.)

^{*1} For the Researcher ID No., give the ID No. registered with e-Rad. Each lead joint researcher intending to conclude a Contract Research Agreement with JST must acquire a Researcher ID No. in advance of the Contract Research Agreement.

^{*2} This is based on the Council for Science and Technology Policy's definition of 'effort', which is "the percentage of working hours required for conducting the relevant research when the researcher's total annual working hours are 100%". Note that "total working hours" does not refer only to the number of hours spent in research activities but to the substantive total working hours, including educational and medical activities.

^{*3} If the appointment of a researcher has not been finalized at the application stage, "Researcher A" etc. can be used instead of the researcher's name. In such cases, the Researcher ID No., affiliated institution, and current position etc. can be left blank for that researcher, but other items (age, effort, research responsibility in project) should be completed as conditions envisaged for the post.

Give the following details for the Japan-side principal investigator.

Principal investigator

Name	
Affiliated institution	
Department/Title	
Academic Background (University onwards)	<p>(Example)</p> <p>20__ : Graduated from __ University Faculty of __</p> <p>20__ : Completed Masters course in __, __ University __ Graduate School (Advisor: __ Professor)</p> <p>20__ : Completed Doctoral course in __, __ University __ Graduate School (Advisor: __ Professor)</p>
Research background (Main professional appointments and research)	<p>(Example)</p> <p>19__ -20__ : Research Associate, __ University, Faculty of __</p> <p>Researched __ under Professor __</p> <p>Since 20__ : Researcher at __ Research Center</p> <p>Conducting research into __ under Dr. __</p>
Age at which retirement from current position is scheduled	____ years of age

Form 4: Counterpart Institution Implementation Structure

<ul style="list-style-type: none"> - To the extent possible, give the joint research partner country, counterpart institution, research location, partner country principal investigator's name and title, partner country principal investigator's profile, research activities and role in joint research, etc. - Briefly, and to the extent possible, describe the collaborative relationship etc. with counterpart institutions, including particulars for which the counterpart institution is considering making an application for technical cooperation. - The outline for each counterpart institution is generally about one page of A4 paper, but as it is important to give all the necessary information, no specific restriction is placed on size. - If conducting joint research with multiple research institutions in one partner country, it is necessary to specify the research institution that will be the main joint research entity in the partner country. For that reason, the main research institution in the partner country should be listed as the principal institution, and the other research institutions in the partner country should be listed as collaborating institutions. Normally, only information concerning a single researcher should be given for each counterpart institution. - If conducting <u>joint research with multiple partner countries</u>, the information for the principal institution (and collaborating institutions) should be given for each country. - If organization charts etc. for the counterpart institutions are available, include them in the text.
--

1. Principal investigator of principal research institution in partner country (provide this information for each of the partner countries)

Name	(Give in alphabetic characters)	Nationality	
Affiliated institution	Japanese name: (omit if Japanese name does not exist)		
	English name: (English name is essential)		
	Country		Position/title
Background	Highest level of education attended	20__ (year): Graduated from __ University Faculty of ____	
	Highest degree earned	20__ (year): PhD (___), __ University)	
	Main professional appointments and research, etc.	Example: 19__-20__: Research Associate, __ University, Faculty of _ — Research into ____ 20__-20__: Researcher, __ University, Faculty of ____ Pursued research into ____	
(For reference:) Other participating researcher(s) at same institution	- For each researcher, give name, position/title, and role		
(For reference:) Request for ODA technical cooperation submitted by counterpart institution	- Describe as far as possible the particulars of the request for ODA technical cooperation to be submitted by the counterpart institution. <u>When implementing joint research with a number of countries</u> , describe as far as possible the particulars of the requests for ODA technical cooperation to be submitted by the counterpart institution in each country.		

2. Main researcher of collaborating institution in partner country (provide this information for each of the collaborating institutions)

Name	(Give in alphabetic characters)	Nationality	
Affiliated institution	Japanese name: (omit if Japanese name does not exist)		
	English name: (English name is essential)		
	Country		Position/title
Background	Highest level of education attended	20__ (year): Graduated from __ University Faculty of ____	
	Highest degree earned	20__ (year): PhD (__), __ University)	
	Main professional appointments and research, etc.	Example: 19__-20__: Research Associate, __ University, Faculty of ____ ____ Research into ____ 20__-20__: Researcher, __ University, Faculty of ____ Pursued research into ____	
Role in joint research	- Describe the researcher's specific role in the joint research		
(For reference:) Other participating researcher(s) at same institution	- For each researcher, give name, position/title, and role		

Form 5: Research Expense Plan

- Submit the plan (budget) for contract research expenses from JST, listing expenses by category.
- The start of the research period varies according to when the R/D is signed (as described on page 19 of the Invitation for Research Proposals). Consequently, the specific FY is not required for this form.
- The uses for which JST contract research expenses can be disbursed are explained on pages 19-21.
- If separate research groups are to be formed in Japan, also provide the research expenses plan for each research group.
- When a project is selected, the actual budget available for research may not match the amount given in this research expenses plan. This is regarded as the plan at the application stage. After selection, the plan will be adjusted, including support for the counterpart institution, etc.

1. JST contract research expenses plan for whole research group

	Provisional selection period ^{*1}	Year 1	Year 2	Year 3	Year 4	Year 5	Total (thousand yen)
Equipment							
Materials/Consumables							
Travel							
Personnel and services							
Other							
Subtotal: Direct expenses (thousand yen)							
Indirect expenses ^{*2} (thousand yen)							
Total (thousand yen)							

^{*1} Expenses for the provisional selection period up to the point where the R/D and MOU are signed are limited to a maximum of 6.5 million yen (including indirect expenses). For each of the Years 2-5, the expenses (budget) should be about 36 million yen (including indirect expenses). The total expenses (budget) for the Provisional selection period and Year 1 should be about 36 million yen (including indirect expenses). Furthermore, the total budget (including indirect expenses) must not exceed 180 million yen for a 5-year project, 144 million yen for a 4-year project, or 108 million yen for a 3-year project.

^{*2} Indirect expenses up to a maximum of 30% of the amount of direct expenses can be included in the contract research expenses.

When including indirect expenses, calculate as Indirect expenses = Direct expenses x 0.3.

Tax: Give expenses as amounts including Japanese consumption tax. The tax rate may be raised in October 2015, but this has not been finalized, so either 8% or 10% can be used for the consumption tax calculation after that date.

2. JST contract research expenses plan by group

●Principal investigator's group

Principal investigator name (Affiliation/position): (University Research Dept.)

	Provisional selection period	Year 1	Year 2	Year 3	Year 4	Year 5	Total (thousand yen)
Equipment							
Materials/Consumables							
Travel							
Personnel and services							
Other							
Subtotal: Direct expenses (thousand yen)							
Indirect expenses (thousand yen)							
Total (thousand yen)							

●Joint research group

Name of lead joint researcher (Affiliation/position): (University Research Dept.)

	Provisional selection period	Year 1	Year 2	Year 3	Year 4	Year 5	Total (thousand yen)
Equipment							
Materials/Consumables							
Travel							
Personnel and services							
Other							
Subtotal: Direct expenses (thousand yen)							
Indirect expenses (thousand yen)							
Total (thousand yen)							

* During the provisional selection period, only the principal investigator's group is counted.

3. (For reference:) Counterpart institution's research expenses plan (including costs expected to be applied for. List each partner country separately)

(1) ODA project expenses

Principal institution in partner country (Country)	Government agency in partner country handling ODA or responsible for science and technology (Government agency due to file ODA request)	Total research expenses (scheduled) in technical cooperation request (= ODA project expenses budget)	Costs covered by partner country side (scheduled)
		Local currency Yen equivalent _____,000 yen	Local currency Yen equivalent _____,000 yen (To the extent possible, give the counterpart institution's total budget and budget for this research.)

- When conducting joint research with multiple countries, add extra rows to the table for the additional information.

- Actual budget for ODA project expenses is fixed after the Detailed Design (D/D) study by JICA after the selection of the project. The figures to be given here are "For reference" only.

- ODA cannot cover all the costs for the developing country side. In order to encourage self-reliant and sustainable economic growth, the developing country is expected to bear a portion of the costs. Consequently, costs such as the partner country side's labor costs, office rental in the partner country, consumables and the costs of operating and maintaining provided machinery and equipment in the partner country, and travel by partner country researchers within the partner country are in principle borne by the partner country side. This point applies equally to the SATREPS program, so the whole of the amount set out above will not be provided as ODA. JICA's D/D study includes discussion of an appropriate level of costs to be borne by the partner country side, including costs for securing research locations in the partner country, and personnel costs for the partner country side researchers. Please understand that the budget for ODA project expenses will only be fixed after the D/D study.

(2) Research expenses plan showing expenses that the counterpart institution will acquire (or plans to acquire) from sources other than the ODA technical cooperation project.

Principal research institution or collaborating institutions in partner country (Country)	Institution supporting research expenses in partner country	Outline of research supported	Total amount of support provided for research expenses
			Local currency Yen equivalent _____,000 yen

- Give details of budgets with the potential to cover the portion to be borne by the partner country side. These are likely to include grants from the partner country government and funding from funding agencies.

Form 6: Grants Received Through Other Programs

- List any grants under national competitive funding schemes or other research grant schemes that the principal investigator and lead joint researchers are currently receiving, are currently applying for, or are planning to apply for. For each funding program, include details of the research project title, research period, amount of research expenses, role of researcher, and differences from/relation to the proposed research project.

Principal investigator (research proposer): Name _____

Funding program ¹⁾	Research project title	(1) Research expenses ³⁾ (entire term) (2) " (FY 2016) (3) " (FY 2015) (thousand yen)	Research period	Role ²⁾ (Principal/ Co-researcher)	Effort ⁴⁾ (Proportion of time allocated)%	Status	Differences from/relation to proposed research project
SATREPS	_____	(1) 100,000 (thousand yen) (2) 20,000 (thousand yen) (3) 20,000 (thousand yen)	2015-2020	Principal	30%	In progress * List any projects in progress or any other projects under application	_____
Grants-in-Aid for Scientific Research (S) (Kakenhi Kiban Kenkyu (S))	_____	(1) 100,000 (thousand yen) (2) 25,000 (thousand yen) (3) 20,000 (thousand yen)	2012-2016	Principal	10%	In progress	_____

Funds for Integrated Promotion of Social System Reform and Research and Development	_____	(1) 32,000 (thousand yen)	2013-2016	Co-researcher	5%	In progress	_____
		(2) 8,000 (thousand yen)					
		(3) 8,000 (thousand yen)					

- 1) Give details of grants etc. currently received, or already finalized, listing the grants in order of size of research expenses (entire term) with the largest first. Then give details of grants etc. already applied for or scheduled to be applied for (mark the project as “Applied for” etc. under Status.)
- 2) Under Role, specify the researcher’s role (principal researcher or co-researcher etc.) in each project.
- 3) Under Research expenses, give the amount received by the researcher in person (direct expenses).
- 4) Under Effort, give a figure based on the Council for Science and Technology Policy’s definition of ‘effort’, which is “the percentage of working hours required for conducting the relevant research when the researcher’s total annual working hours are 100%”. Note that “total working hours” does not refer only to the number of hours spent in research activities but to the substantive total working hours, including educational and medical activities. Give the figure envisaged after the project is selected for the SATREPS program.

* If false information is provided here, the application may be rejected, or have the selection decision reversed or the project budget reduced.

Lead joint researcher: Name _____

Funding program ¹⁾	Research project title	(1) Research expenses ³⁾ (entire term) (2) " (FY 2016) (3) " (FY 2015) (thousand yen)	Research period	Role ²⁾ (Principal/Co-researcher)	Effort ⁴⁾ (Proportion of time allocated)%	Status	Differences from/relation to proposed research project
SATREPS	_____	(1) 80,000 (thousand yen) (2) 30,000 (thousand yen) (3) 30,000 (thousand yen)	2015 -2020	Co-researcher	15%	In progress * List any projects in progress or any other projects under application	_____
Grants-in-Aid for Scientific Research (S) (Kakenhi Kiban Kenkyu (S))	_____	(1) 100,000 (thousand yen) (2) 25,000 (thousand yen) (3) 20,000 (thousand yen)	2012 -2016	Principal	10%	In progress	_____ —
Funds for Integrated Promotion of Social System Reform and Research and Development	_____	(1) 32,000 (thousand yen) (2) 8,000 (thousand yen) (3) 8,000 (thousand yen)	2013 -2016	Co-researcher	5%	In progress	_____

Form 7: Contact Information for PI and Affiliated Institution

- The contact information for the principal investigator will be used during the assessment of the proposal. Please make sure that the information is up to date. If the principal investigator is unavailable, the administrative contact will be contacted instead.

Principal investigator	Name		Date of birth	19__ (year) __ (month) __ (day) (Age: years) (Age as of April 1, 2015)	
	Researcher ID No.	(e-Rad Researcher ID No.)		Male/female	
	Institution/affiliated dept.				
	Position/title				
	Affiliated institution code	(e-Rad code for affiliated institution)			
	Address	Postcode: Address:			
	TEL				FAX
	E-mail:				
Principal investigator's institution administrative contact	Contact			Position/title	
	Institution/affiliated dept.				
	Administrative contact information	Postcode: Address:			
		TEL.	FAX.		
		E-mail:			

Form 8: Written Approval from Institution Director

Date: _____

Written Approval

To:

Japan Science and Technology Agency

Japan International Cooperation Agency

I hereby declare that if the underwritten research project proposed for the SATREPS (Science and Technology Research Partnership for Sustainable Development) program is selected, this institution will provide support for the international joint research as set out below.

(Principal investigator's institution)

Director (name, title): _____

Institution: _____ (Official Seal):

Research project

Research project title: _____

Principal investigator: _____

Support to be provided

- Support for the exchange of documents agreeing to the implementation of international joint research with the counterpart institution
- Support for control of expenses and agreement with JICA
- Provision of systems for clarifying responsibility and safety management in relation to the international dispatch of students and graduate students as part of efforts to train young researchers
- Support for other procedures, etc., required in order to conduct international joint research
- Provision of a research structure led by the principal investigator for the duration of the research project (Also respond to the question etc. below)

<u>Is the principal investigator expected to reach retirement age (or similar) during the duration of the project?</u>	<u>If the answer to this question is YES, please describe how your institution will ensure the continuity of the research implementation structure.</u>
(YES / NO)	

Form 9: Plans by Private-Sector Corporations, etc.
(To be completed by Japan-side businesses participating in the project)
Date: _____

Corporate initiatives concerning application of outcomes

To:
Japan Science and Technology Agency
Japan International Cooperation Agency

I hereby declare that if the underwritten research project proposed for the SATREPS (Science and Technology Research Partnership for Sustainable Development) program is selected, _____ (company) will implement initiatives aiming at the application of research outcomes, following the principles set out below.

Company official of participating business (having authority concerning the content of this document):

Signature: _____

Name: _____

Company: _____

Position/title: _____

Research project

Research project title: _____

Principal investigator: _____

Principles for corporate initiatives concerning application of outcomes

(Give specific details concerning initiatives for the application of research outcomes.)

- (1) Method for application of outcomes:
- (2) Roadmap and schedule for application of outcomes:
- (3) Effects for partner country and other countries (including Japan):
- (4) Utilization and fields of application envisaged for the technology:
- (5) Risks pertaining to commercialization/practical application:

Form 10: Proposal Coordination Status

- In response to each of the following questions, circle either YES or NO (or alternatively, strike out the answer that does not apply).
- Note that selection of a project is not conditional on a YES response to all questions. Details of the proposal and the coordination status are considered together when making selection decisions.

Status of coordination with partner country

1	Regarding the project name and research plans (overall plans including implementation of research in either Japan or the partner country), have you jointly examined the content of the plans in accord with the intent of the SATREPS program and of the research area for which the project is proposed, and reached broad agreement with the partner country researchers?	YES NO
2	An ODA request needs to be submitted to the Japanese government by the partner country side via the government agency handling ODA. Have you confirmed that the partner country researchers will make those arrangements by the domestic deadline in the partner country?	YES NO
3	Have you confirmed the details of the research proposal and ODA request together with the partner country researchers in the light of understanding that (1) ODA support is provided through the framework of a technical cooperation project, (2) no financing is provided to the counterpart institution, and (3) some expenses are subject to the principles of the recipient country's responsibility to shoulder expenses?	YES NO
4	Have you confirmed the partner country researchers understand that the SATREPS program is not simply a technology transfer project; it is a joint research project with the aim of acquiring new knowledge and technology?	YES NO
5	Are you considering the roadmap for future application of outcomes on the basis of policies and views of partner country government agencies and the private sector as well as the partner country research institution?	YES NO
6	Have you confirmed that the partner country researchers understand and have taken the necessary actions regarding the systematic response required from the counterpart institution under the SATREPS program?	YES NO

Status of coordination with joint researchers in Japan

7	Have you confirmed that each joint researcher understands that unlike regular competitive funding schemes, capacity development of the partner country institution through joint research is included in the SATREPS program because the project is linked with ODA?	YES NO
8	Form 2 of the research proposal documents is limited to a maximum of 10 A4 pages. To ensure impartiality, forms exceeding 10 pages will be considered non-compliant. Is your Form 2 within the 10-page limit?	YES NO

Status of coordination with affiliated institution

9	The SATREPS program involves responsibilities not required for ordinary competitive funding schemes, such as requiring an agreement for the implementation of joint research to be signed with the partner country institution, an Agreement and project contract for the technical cooperation project to be signed with JICA, and the use of appropriate ODA cost accounting. Have you held discussions with the institution you are affiliated with, including discussion of this point, and obtained a Written Approval from Institution Director (Form 8)?	YES NO
10	Within one month of applying for this program, you are required to submit either a training certificate or a declaration of research integrity. Have you already completed a training course on research integrity at your institution? If not, will you receive training within a month of submitting your application?	YES NO

Status of coordination with principal investigator's other work

11	Under the SATREPS program, the principal investigator is required to provide more management than ordinary competitive funding schemes, and to commit to the necessary effort. In particular, the principal investigator needs to spend time liaising between Japan and the partner country in the period leading up to the signing of the R/D. Based on that point, have you investigated whether you can arrange to devote the necessary effort when the project is selected?	YES NO
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Status of coordination with overseas diplomatic missions

12	In applying for the SATREPS program, have you exchanged information sufficiently with overseas diplomatic missions and JICA local offices as part of the process of examining the details of your proposal?	YES NO
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Security measures

13	Are you checking the security situation and travel information for the partner country and domestic locations where research will be conducted? Explanation: Projects cannot be implemented in areas where it is judged difficult to ensure the security of people involved in the project. Access the MOFA website (http://www.anzen.mofa.go.jp/) and other sources of information to check foreign travel and security information etc.	YES NO
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Counterpart institution implementation structure, etc.

14	Have you reached agreement with the partner country principal research institution concerning the research activities and how the research will actually progress? Does the institute have a sufficient understanding of the SATREPS system? Explanation: Lack of sufficient agreement in advance has a substantial influence on subsequent progress. In some cases, a difference of expectations between the parties can make it difficult to proceed with the research.	YES NO
15	Is the counterpart's principal investigator a principal researcher with the ability to unify the partner country implementation structure, including the various institutions involved in the project? Also, does the research institution have an adequate support structure? Explanation: Under SATREPS, which is a program for joint research between institutions in Japan and in developing countries, the partner country's principal investigator, in addition to personally having research abilities, must have the ability to unify the whole of the counterpart's implementation structure, and must also receive sufficient support from affiliated institutions. This is a key factor in the smooth implementation of the project.	YES NO
16	Is the research staff sufficient (in terms of both abilities and numbers) for conducting joint research? Explanation: To conduct joint research effectively, it is important that the counterpart institution allocates a sufficient number of capable research staff members. Having an inadequate staff may adversely affect the progress of the project, or may result in the research being over-reliant on the Japan side, making it difficult to promote capacity development at the counterpart institution.	YES NO
17	Has sufficient budget been acquired for the joint research? (Do the partner country principal research institution and other institutions involved understand that SATREPS does not provide funding from Japan?) Explanation: Under the SATREPS system, as an ODA project, the partner country is required to bear an appropriate amount of expenses to encourage self-reliant development. For this reason, the counterpart side must acquire a budget to cover its expenses. To ensure this, it is important to obtain the understanding of the overseeing agency involved in budgeting. If you do not already have experience of joint research with the partner country, particular attention must be paid to whether a budget has been acquired.	YES NO
18	Has the infrastructure (facilities/machinery and equipment) needed for implementing joint research been put in place at the partner country principal research institution? Explanation: Provision of the required facilities and space for the joint research is in principle the responsibility of the partner country. Providing the counterpart institution with facilities and machinery and equipment is not one of the aims of the SATREPS project. If there are problems with the current infrastructure, it is necessary to check whether sufficient maintenance will be possible after the project finishes.	YES NO
19	Have you confirmed coordination with and allocation of functions between the counterpart institution's overseeing agency and the other government agencies involved? Explanation: The participation of the supervising agency and the other government agencies involved is important for ensuring the acquisition of a budget for the smooth implementation of the SATREPS project and in ensuring the application of research outcomes. Furthermore, it is necessary to ensure a	YES NO

	clear definition of functions in advance. The supervising agency and other agencies are also involved in the SATREPS application procedure handled by the partner country, so, in addition to the details of the joint research proposal, it is important to explain and obtain sufficient understanding of the costs that need to be borne by the partner country.	
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Provision of machinery and equipment

20	Are you taking account of points requiring special attention when the machinery and equipment to be supplied includes specialist machinery and equipment and plant constructed to order? Explanation: It is envisioned that general procurement of machinery and equipment via JICA will be unable to handle specialist machinery and equipment and plant constructed to order. Consequently it is necessary to check in advance that the Japan-side principal investigator's institution (or other group members including joint research institutions, etc.) has the ability to handle the procurement procedures and the necessary construction and maintenance.	YES NO N/A
21	Does the plan for provision of machinery and equipment take account of the setup for handling and maintenance of the machinery and equipment after the project finishes? Explanation: After the SATREPS project finishes, the machinery and equipment provided by Japan are to be used for further research activities, etc., with the partner country becoming responsible for the costs of maintaining the machinery and equipment provided by Japan. Consequently, the introduction of machinery and equipment that exceed the partner country's maintenance capabilities is considered inappropriate, even if the machinery and equipment are essential for the research. Also, machinery and equipment provided by ODA is provided on the assumption that the machinery and equipment will continue to be used after the project finishes for the lifetime of the machinery and equipment, so the system does not cover machinery and equipment that will not be used on an ongoing basis in the partner country, or will only be used for purposes such as gathering data for research.	YES NO

Application of outcomes

22	Has a clear roadmap been produced as a practical plan for application of outcomes? Explanation: One of the major characteristics of SATREPS is that the outcomes of joint research are not only used for research. The outcomes are applied to benefit society. Even from an ODA perspective, it is important to have a practical and realistic plan for application of outcomes, not just a hypothetical plan.	YES NO
23	In order to prepare for application of outcomes, does the implementation structure include the participation of related institutions or entities such as private sector businesses? Explanation: The SATREPS joint research period lasts a maximum of 5 years. In order to achieve the application of outcomes to a certain extent, it is important to have private sector businesses and other entities that will handle the application of outcomes section of the project actually participate from the idea stage, and prepare for implementation in a planned manner.	YES NO

Other Japanese projects in the same field

24	Have you confirmed whether any other Japanese aid projects (JICA projects, etc.) have been implemented or are being implemented in the same field? Explanation: If the partner country principal research institution for the current project has acted as the counterpart (C/P) for other aid projects in a related field in the past, then from the perspective of making effective use of ODA, consider research plans that build on that past experience as far as possible. If there are related ODA aid projects such as JICA technical cooperation projects currently in progress (or scheduled to be implemented soon), confirm that there is no duplication of content between such projects and the proposed SATREPS project. In particular, if the counterpart institution is the same institution, there is a risk of the new project impacting the implementation structure of the existing project. Take this into account, and if circumstances warrant, consider adjusting the timing or content of the proposal.	YES NO
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Projects backed by other donors in the same field

25	Have you confirmed whether any other aid projects have been implemented or are being implemented in the same field but backed by other donors? Explanation: Confirm whether there is any duplication, and how the project is scheduled to proceed. In particular, if the counterpart institution is the same institution, make sure to question the donor's representatives and the counterpart institution sufficiently to confirm the likely extent of the resulting impact if the proposed joint research is implemented.	YES NO
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Appendix 3. Submitting application via e-Rad

Appendix 3 is only available in Japanese. Before submitting an application, applicants who do not read Japanese are expected to familiarize themselves with the content with the assistance of a research collaborator or member of their institute's staff who is proficient in Japanese.

Inquiries should preferably be made by email, except when urgent.
Updated information will be posted on the SATREPS research proposal website.
<http://www.jst.go.jp/global/english/koubo.html>

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