Comprehensive Support Programs for Creation of Regional Innovation
Japan Regional Innovation Strategy Program by the Excellence (J-RISE)

Application Form

(Forms)

【Form 1】

Date:_____

To: Mr. Koichi Kitazawa
President, Japan Science and Technology Agency

(Name of University)
(Name of Representative)

(Name of Local Government)
(Name of Representative)

(Official Seal)

Japan Regional Innovation Strategy Program by the Excellence (J-RISE)
Application Form

[Name of University]and [Name of Prefecture (Municipality)] hereby submit the following application for the FY2009 Japan Regional Innovation Strategy Program by the Excellence (J-RISE) received following public recruitment together with the required documents.

Name of Project: (*20 words or less*)

コメント [O1]: 以下、日本語の文字数制限があるところについては(例えば「20 字」)、英語にした場合、英語の文字数に書き換える必要がございます。

In-House Expert Researcher: *(Affiliation/Position)*

Project Leader: *(Affiliation/Position)*

Application Outline: *(Summarize in approximately 10 lines.)*

University Unit in Charge: [Name of University] [Name of Department/Section]
Officer in Charge: [Name] (TEL:_____ FAX:_____E-mail: _____)

Local Government Unit in Charge: [Name of Prefecture (Municipality][Name of Department/Section]
Officer in Charge: [Name] (TEL:_____ FAX:_____E-mail: _____)

With regard to forms for and submission of progress reports on implementation in accordance with "Guidelines for Management and Supervision of Public Research Funds at Research Institutions (Performance Standards), universities that have already submitted progress reports in accordance with Notice 762 issued by the head of the Science and Technology Policy Bureau dated September 10, 2008 (http://www.mext.go.jp/a_menu/02_b/08091222.htm) should complete the following table.

Cross-ministerial R&D Management System (e-Rad) number of the affiliated research institution	
Date of submission (if submitted via postal mail, date posted)	

[Name of University]/[Name of Prefecture (Municipality] Japan Regional Innovation Strategy Program by the Excellence (J-RISE)

Name of Project:_____

Technological Field: (Main Field) *(select number and research field from Appendix 1)*

(Secondary Field): *(select number and research field from Appendix 1)*

Research Key Words (multiple key words accepted): *(select code number and key words from Appendix 2*

Head-and-shoulders photograph

In-House Expert Researcher

(Affiliation/Position)

Head-and-shoulders photograph

Project Leader

(Name)

(Affiliation/Position)

R&D Objective **Approximately 300 words*

- *Aims and plan for the project*
- *Current R&D status*
- *Hurdles to Commercialization and creation of new industries, problems that need to be overcome, etc.*

Background **Approximately 300 words*

- *Need for R&D based on regional characteristics of prefectures, municipalities, etc.*
- *Current status and achievements of related science and technology promotional measures*

R&D Topic **Approximately 500 words*

- *R&D details, objectives, plans, and systems (participating institution)*
- *Envisioned fields of application and market size*
- *Ripple effect on local industries, social effects, and economic effects*

Expert researchers to be invited/for cooperation and expected results of invitation/cooperation

**Approximately 500 words*

○ *(Current affiliation/position/name)*

○ *(Current affiliation/position/name)*

○ *(Current affiliation/position/name)*

- *The results anticipated from the formation of a R&D team (Dream Team) through the invitation of and cooperation with Expert Researchers in accelerating, enhancing, and broadening research by in-house Expert Researchers, as well as in the generation of new technology seeds and new industries.*

【Form 2】

[Name of University]／[Name of Prefecture (Municipality)]

Japan Regional Innovation Strategy Program by the Excellence

(J-RISE)

Basic Plan (Proposal)

Name of Project:_____

Date:_____

[Name of University]

[Name of Prefecture (Municipality)]

I. Purpose of Project

I-1. Background to Project Application and Reasons for Selection of Topic

(1) Status of R&D in the Relevant Field by the University

(Provide information on the current status of R&D by the university in the proposed field that is to center on Expert Researchers and the positioning of this research at the university.)

(2) Local Government Measures to Promote Science and Technology Related to the Relevant Field

(Provide information about past and present local government promotional measures to advance science and technology in the relevant field.)

(3) Status of Local Industries Related to the Relevant Field and Its Scientific and Technological Potential

(Provide information on the current status of local industries related to the relevant field (from the standpoint of circulating seeds for the relevant technologies that will germinate in the future) and the scientific and technological potential of the relevant field (human resources perspective, track record of industry-academia-government cooperation).)

(4) Need for Promoting R&D in the Relevant Field Locally

(Based on (2) and (3), explain the need for promoting science and technology in the relevant field locally.)

I-2. Project Objectives and Anticipated Results

(1) Project Objectives

(Briefly explain the objectives for the project's implementation from the standpoints of both constructing a research system and promoting R&D.)

(2) Ripple Effect on the Local Region

(Based on (1), describe the ripple effects on the local region, such as the creation of new industries through Commercialization of technology seeds and local revitalization.)

(3) Ripple Effect on the University

(Based on (1),describe the anticipated ripple effects on the university, such as creation of a base for R&D in a specific field, inflow of competitive funding, building up of human resources.

II. Dream Team

II-1. Research Outline for Expert Researchers

(1) Status of R&D by In-House Expert Researchers

① Current status of and future outlook for research by In-House Expert Researchers concerning the proposed R&D topic

② Novelty, superiority, and competitiveness of the research results of In-House Expert Researchers concerning the proposed R&D field

③ Submission of patent applications and publication of papers concerning the proposed R&D field

④ Past record of competitive funding procurement

(Provide information on the status of R&D by In-House Expert Researchers that will form the technological basis for carrying out the project, the importance of the R&D both domestically and overseas, and the future outlook for the R&D field (do not focus on commercialization, but provide general information).) Furthermore, from the standpoint of evaluating the expertness of researchers, please also provide information from a quantitative perspective on their main research results in both the field being applied for and other research fields ,as well as the domestic and international impact and superiority of the relevant research results.)

(2) Invitation of Expert Researchers

① Affiliation, position, and names of Expert Researchers to Be Invited

• Main research results and domestic and international superiority and competitiveness of Invited Expert Researchers

• Anticipation effects on the performance of R&D by In-House Expert Researchers due to the invitation of the Expert Researchers in question.

• Status of and outlook for negotiations with the Expert Researchers to Be Invited and possible period for recruitment

• (If possible) Number of patent applications lodged, patents registered, and papers published regarding topics related to the proposed research field.

• (If possible) Past record of competitive funding procurement

(Provide a list of all Expert Researchers to Be Invited that includes information on the expertness of each researcher, the effects their recruitment is expected to have on In-House Expert Researchers, the outlook for their recruitment, and possible period for recruitment.)

(3) Cooperation with External Expert Researchers

①Affiliation, position, and names of Expert Researchers for Cooperation

• Main research results and domestic and international superiority and competitiveness of Expert Researchers for Cooperation

• Anticipation effects on the performance of R&D by In-House Expert Researchers due to cooperation with the Expert Researchers in question.

• Status of and outlook for negotiations with the Expert Researchers to Be Invited and possible period for cooperation

• (If possible) Number of patent applications lodged, patents registered, and papers published regarding topics related to the proposed research field.

• (If possible) Past record of competitive funding procurement

(Provide a list of all Expert Researchers for Cooperation that includes information on the expertness of each researcher, the effects their cooperation is expected to have on In-House Expert Researchers, the outlook for their cooperation, and possible period for cooperation.)

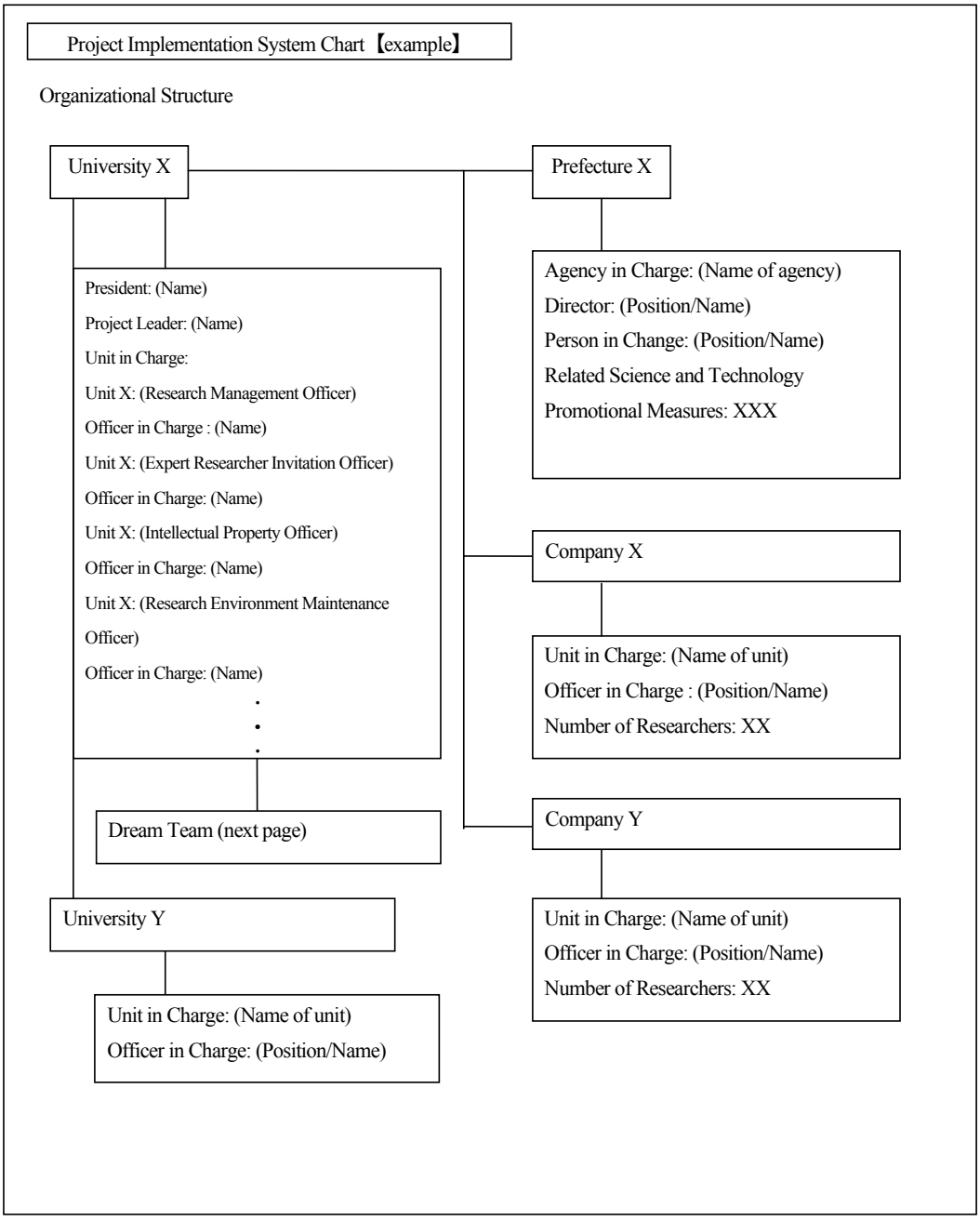
(4) Results Anticipated from Mobilizing Expert Researchers

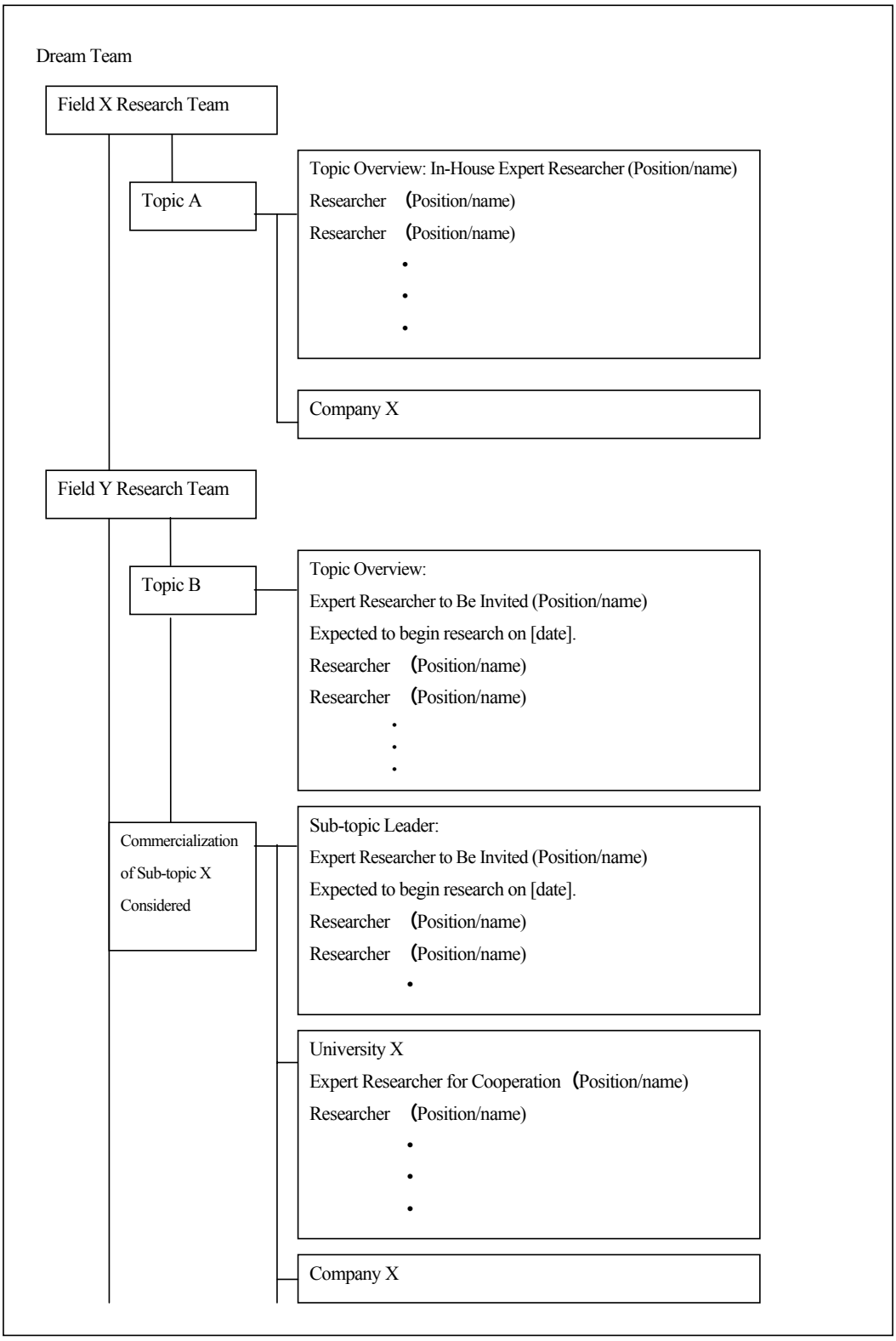
(In the case that a Dream Team comprising the listed Expert Researchers has been formed, provide quantitative and objective information about the anticipated effects of the relevant research field, such as its impact on the research and industrial communities, actually anticipated R&D promotional effects, and procurement of external funding and human resources.)

III. Project Implementation System

III-1. Project Implementation System Chart

(Create charts that present an outline of the overall project implementation system: 1 chart showing the organizational structure and 1 chart for each research topic showing the system and researchers involved.




Dream Team
Field X Research Team
Topic A
Topic Overview: In-House Expert Researcher (Position/name)
Researcher （Position/name)
Researcher （Position/name)
Company X
Field Y Research Team
Topic B
Topic Overview:
Expert Researcher to Be Invited (Position/name)
Expected to begin research on [date].
Researcher （Position/name)
Researcher （Position/name)
Commercialization of Sub-topic X Considered
Sub-topic Leader:
Expert Researcher to Be Invited (Position/name)
Expected to begin research on [date].
Researcher （Position/name)
Researcher （Position/name)
University X
Expert Researcher for Cooperation （Position/name)
Researcher （Position/name)
Company X

III-2. Outline of Project Implementation System

(Provide details of Dream Team composition and Project Implementation System characteristics.)

III-3. Measures for Promoting the Project

(1) Project Leader: (1 person)

Name:

Current Position:

Reasons for Recruitment Based on Profile:

Provide an overview.

**As the person in charge of the project overall, the Project Leader has the following roles within the university.*

• Supervision and coordination of recruitment of and cooperation with Expert Researchers

Recruitment of Expert Researchers is carried out by the university in collaboration with the Local Government.

• Maintenance of university research environment for the Dream Team

• Formulation of the implementation plan and supervision of implementation progress in collaboration with the Local Government

• Selection of researchers and office staff and formulation of budget proposals in collaboration with the Local Government

• Coordination with the National Government, JST, Local Government, and participating companies

• Coordination of new business participation in cooperation with the Local Government

• Promotion of commercialization, Commercialization Promotion Committee/Construction of a Commercialization Promotion System, policy formation

(2) Core University Measures for Promoting R&D

① In-House system

(Provide information about the structure or system under which the Dream Team's research is to be promoted, centering on the Project Leader, as well as related departments, agencies, and people and their relevance.)

② Office system

(Provide as much information about the system as has been decided.)

1) Office staff (number of staff)

Name (Affiliation/Position):

Classification/Work level: *(For "Classification", provide the person's normal position, such as "full-time university employee", "temporary prefecture transfer", or "temporary company transfer"; for "Work level", write either "full-time" or "part-time".)*

Assigned duties:

2) Office support staff: (number of staff)

(3) Local Government

1) Organizational structure and role

(Describe the organizations that are to promote this program (main units, related units, public agencies, etc.), their roles, and details of the support provided.)

2) Details of lifestyle support for Expert Researchers to Be Invited (if required)

(Describe in detail measures for supporting Expert Researchers to Be Invited by the Local Government, such as maintenance of their living environment.)

3) Support for R&D (if required)

(Provide detailed information about the allocation of researchers by the Local Government, delivery of research costs, and support content.)

(4) Anticipated Corporate Participation

(Provide information about anticipated Corporate Participation in carrying out joint research aimed towards commercialization in collaboration with the R&D team for this project (in the case that concrete details have been decided, provide the name of the company, unit in charge, topic the company is in charge of, participation period, etc.).)

III-4. R&D System 5 Years after Completion of the Project

(1) Objectives Related to R&D System 5 Years after Completion of the Project

(Under this program, it is anticipated that after the project has concluded, approximately 5 more years will be required for the establishment of research bases and the creation of new industries. Describe the objectives related to a R&D system constructed by the university and/or Local Government within 5 years of the project's completion.)

(2) Efforts to Maintain and Expand the R&D System Following Completion of the Project

(Provide specific details about the efforts of the Core University, Local Government, and participating companies to construct the system described in (1) above.)

IV. Project Implementation Details

IV-1. Project Objectives

(1) Objectives Related to Generation of Technological Seeds

(Provide information about the aims of efforts by the Dream Team at the university intended to generate technological seeds. Provide quantitative information about the potential of technological seeds newly generated through implementation of the research on this topic, such as commercialization or the generation of new local industries due to commercialization, local revitalization, and social impact.)

(2) Objectives Related to Commercialization of Technological Seeds

(Provide information about the aims of commercialization development undertaken through industry-academia cooperation over a time span of 5 years after conclusion of the project, including concepts for new technologies and industries expected to be generated locally through the implementation of this project.)

IV-2. Project Implementation System / Implementation Overview

(1) Topic Setting Characteristics

(Describe thinking concerning topic setting and division of roles as well as topic setting characteristics in the course of implementing the project.)

(2) Implementation System / Implementation Overview for Each Topic

(Provide the following items for each topic.)

1) Topic 1: Research on *****

① Implementation System

Topic Overview: *****(Professor, Faculty of Engineering, ** University; to be recruited in [month] [year])*

Until recruitment **(Professor, Faculty of Engineering, ** University) will act as leader.*

Sub-topic 1：Research on *****

[Sub-leader: *****(Professor, Faculty of Engineering, ** University)*]

Sub-topic 2：Consideration of the Commercialization of ******

[Sub-leader: ***** (Manager, XX Operational Headquarters, [company]))*]

*(Regarding the Research Topic list, include topics as far as the sub-topic level. Be sure to include the name of the topic leader (*the topic leader need not be an expert researcher). Write the names of sub-topic leaders as far as they have been decided. In the case of Researchers to Be Invited, be sure to indicate that they are to be invited and clearly outline the system for team leader substitution.)*

② R&D Objectives

(Describe the objectives of the research topic. Include future visions for the research, such as whether or not it is to be considered solely for commercialization or whether or not it aims to generate technological seeds.)

③ Necessity

(Explain in detail why the research topic is necessary for achieving commercialization/generation of new industries.)

④ Novelty/Superiority

(Provide detailed information about the novelty of the theme, including information related to the patents or published papers provided in ⑥. Also provide detailed information of the points on which the topic is superior to competing R&D.)

⑤ Research Plan

(a) Research Details *(Provide detailed information on the research method, such as who is performing what and how)*

(b) Place where Research is to be Carried Out *(In the case the research is not to be conducted at the university, provide reasons why this is the case.)*

⑥ Patents Held for and Papers Published on the Relevant Topic

(If any of the participating researcher/institutions hold patents or have published papers on topics related to the research topic, indicate the number of these. Also, provide details for a maximum of 5 particularly important patents and5 particularly important papers.)

Number of patents held: XX

(Patents)

Name of Patent:

Application Number:

Applicant:

Inventor:

(Papers)

Title:

Publication (Issue number, Volume number, Page number):

Name/Affiliation of Author:

⑦ Related Patents (In the case that the applicant was someone other than a participating researcher/institution)

(If there are patents for which the applicant was someone other than a participating researcher/institution and that may cause problems for the implementation of the program, provide details of these for each topic.)

Name of Patent:

Application Number:

Applicant:

Inventor:

Problems: *(Provide details of any solutions to this problem you may have already though of.)*

⑧ Technological Problems Requiring Priority Resolution and Numerical Values that Should be Attained

(In the case of topics for which commercialization is a consideration, provide information on performance indexes, which should provide a barometer for achieving commercialization, as well as about problems that require resolution in order to achieve commercialization within 5 years of conclusion of the project, the current status, and annual target values.)

⑨ Local Economic Effects of Commercialization of the Relevant Topic on the Local Economy

(In the case of topics for which commercialization is a consideration, provide detailed information about your vision as well as your grounds for that vision, such as increased market competitiveness due to commercialization of technological seeds, scale of sales, and market share.)

⑩ Social Effects of Commercialization of the Relevant Topic

(In the case of topics for which commercialization is a consideration, explain the influence and impact on the lives of the general public due to the commercialization of technological seeds.)

V. ． R&D Plan

V-1. R&D Schedule

(Provide an overview of the implementation plan for each topic, sub-topic, and fiscal year.)

Fiscal Year		Topic 1		Topic 2	
		Sub-topic 1	Sub-topic 2	Sub-topic 1	Sub-topic 2
Start	FY2009				
	FY2010				
	FY2011				
Mid-term Evaluation	FY2012				
	FY2013				
	FY2014				
Completion	- FY2019				

V-2. Required Costs over 5 Years

(1) Overall Costs

Amount (1,000 yen) / Institution	Costs Born by JST	Costs Born by the Local Government *In the case of small/medium businesses, costs after double allocation
【Direct Costs】 ○Core University	○○, ○○○	○○, ○○○
○Local Government *JST-born costs are reconsigned	○○, ○○○	○○, ○○○
○Reconsigned Institution (Company A) (Company B)	○○, ○○○ ○○, ○○○	○○, ○○○ ○○, ○○○
Direct Costs Total	○○, ○○○(①)	○○, ○○○(②)
【Indirect Costs】 ○Core University	○○, ○○○	
○Reconsigned Institution (Local Government)	○○, ○○○	
○Reconsigned Institution (Company A) (Company B)	○○, ○○○ ○○, ○○○	
Indirect Costs Total	○○, ○○○(③)	
Total	○○, ○○○(①+③)	

**Plan costs to ensure that (②Total Costs Born by the Local Government) ≧(①Direct Costs (including reconsignment costs) within the Total Costs Born by JST)/2*

**Take care to ensure that tables for (2) and (3) can be compared.*

**Provide information on cost distribution for systems that are already specified.*

(2) Required Costs (Born by JST) for Each Fiscal Year

(1,000 yen)

	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	Total
[Name of University]							
Prefecture X							
Company YX							
・・・・・							
Total							

【Note】

① The upper limit for Costs Born by JST is 220 million yen x 5 years = 1.1 billion yen. However, do not be inhibited by this upper limit and allocate a budget that is appropriate for the scale of the research project.

② There is no scaled distribution of Costs Born by JST according to fiscal year. However, Costs Born by JST for the first year (FY2009) and the final year (FY2014) are half the annual amount.

③ Provide the total required costs for both Direct Costs and Indirect Costs.

④ JST will provide consignment costs for only those of the proposed research topics that are deemed appropriate for implementation under this program. Accordingly, please note that even if the proposed project is accepted, Costs Born by JST are not 220 million yen per year across-the-board for each project.

⑤ Research-related running costs (utilities costs) can be paid out of consignment costs.

(Breakdown)

○Required Costs: Name of Core University (　　)

Item/Details \ Amount (1,000 yen)		FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	Total
Direct Costs	①Cost of goods and supplies							
	(Breakdown)							
	②Travel Expenses							
	(Breakdown)							
	③Rewards, remuneration, etc.							
	(Breakdown)							
	④Other							
	(Breakdown)							
	Direct Costs Total							
Indirect Costs	30% of Direct Costs							
Reconsignment Costs	Y × Company X × University ・・・ *(Provide details on the form on the next page)*							
Total								

【Note】

①In the case of reconsignment of research to local government (Public Testing Institutions), universities, etc. or companies, use the form below and complete one form for each reconsignment agreement concluded.

②Items that may be included under Direct Costs are as follows.

・Cost of goods and supplies

Costs required for purchasing general-purpose equipment (machinery, equipment, software, etc.) for producing test production items for the relevant R&D and general-purpose equipment (machinery, equipment, software, etc.) for use in evaluating the test production items; for purchasing materials required for converting, installing, and repairing equipment purchased for use in the R&D; and for purchasing consumables required for evaluating consumables, consumable equipment, test reagents/pharmaceuticals, and test production items. Furthermore, outsourcing of test production and software R&D with "material" outcomes should also be included under

・Cost of goods and supplies.

**Regarding Costs Born by the Local Government, costs incurred in maintaining the Dream Team's research environment (construction, conversion, usage fees) should be included under Cost of goods and supplies.*

・Travel expenses

Costs required for recruiting Expert Researchers; for university researchers to collect materials required for carrying out the relevant research; and for conducting surveys, research meetings, and research result presentations.

・Rewards, remuneration, etc.

Employment costs for Expert Researchers, researchers, and other staff recruited or employed for this R&D and Rewards, remuneration, etc. for short-term employees.

**Do not include employment costs for staff employed by participating companies.*

・Other

Other costs required for conducting the relevant research that are recognized by JST, including individually itemized costs such as for printings, copying, meetings, and purchasing documents/books; research laboratory utility costs; fire insurance premiums; and amounts equivalent to consumption tax in nontaxable transactions. Outsourcing costs for services with "non-material" outcomes (surveys, testing, mouse breeding, etc.) should also be included under Other Costs.

**With regard to Costs Born by the Local Government, housing rental costs incurred in recruiting Expert Researchers should be included under Other Cost.*

○Required Costs (Reconsignment Costs): Reconsigned Contractor (　　)

Item/Details \ Amount (1,000 yen)		FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	Total
Direct Costs	① Cost of goods and supplies							
	(Breakdown)							
	② Travel expenses							
	(Breakdown)							
	③ Rewards, remuneration, etc.							
	(Breakdown)							
	④ Other							
	(Breakdown)							
	Direct Costs Total							
Indirect Costs	X% of Direct Costs							
Total								

• So that R&D can be carried out economically and efficiently, the actual consignment fee amount stipulated in the contract may not match the amount stated in the application until a decision is made based on screening results.

(3) Required Costs (Born by the Local Government) for Each Fiscal Year

(1,000 yen)

	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	Total
[Name of University]							
Prefecture X							
Company YX							
・・・・・							
Total							

【Note】

①Plan so that the Costs Born by the Local Government are an appropriate amount in consideration of the Costs Born by JST (half or more of the Direct Costs born by JST).

②If the Costs Born by the Local Government over five years is an appropriate burden amount, the burden may be adjusted year-by-year.

③Employment costs for researchers affiliated with the university/ local government and other staff required for conducting R&D can count effort costs as Costs Born by the Local Government. Employment costs for the Project Leader and office staff can be calculated as either Direct Costs Born by JST or Direct Costs Born by the Local Government.

④In the case of national universities, employment costs paid out of operating cost subsidies cannot be included.

⑤In the case of small/medium businesses, double allocation of the cost burden amount is allowed. After the name of the company write "small/medium business" and in the table above write the actual amount after double allocation.

⑥For Costs Born by the Local Government, include only Direct Costs.

(Breakdown)

• Complete 1 form for each institution that bears costs.

*• In the case of small/medium businesses, after the name of the institution write "small/medium business" and in this table write the actual amount **before double allocation**.*

○Name of Institution (　　)

Item/Details \ Amount (1,000 yen)		FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	Total
Direct Costs	① Cost of goods and supplies							
	(Breakdown)							
	② Travel expenses							
	(Breakdown)							
	③ Rewards, remuneration, etc.							
	(Breakdown)							
	④ Other							
	(Breakdown)							
	Direct Costs Total							
Total								

(4) Research Costs for Each Topic

(1,000 yen)

Topic 1	Item	Born by JST	Born by the Local Government	Total
Sub-topic 1	[Name of University] • Cost of goods and supplies • Travel expenses • Rewards, remuneration, etc. • Other Company YX • Cost of goods and supplies • Travel expenses • Rewards, remuneration, etc. • Other			
Sub-topic 2	[Name of University] • Cost of goods and supplies • Travel expenses • Rewards, remuneration, etc. • Other			
Total				

・・・

【Note】

① Provide the total costs amount and a breakdown of costs for each topic and institution for the term of the project.

②Provide the costs incurred in recruiting Expert Researchers (including employment costs for Guest Expert Researchers) in (5).

(5) Costs Required for Inviting Expert Researchers

(1,000 yen)

Item	Born by JST	Born by the	Total
[Name of University] • Cost of goods and supplies • Travel expenses • Rewards, remuneration, etc. • Other Prefecture X • Cost of goods and supplies • Travel expenses • Rewards, remuneration, etc. • Other			
Total			

【Note】

①Provide the costs incurred in recruiting Expert Researchers (including employment costs) and maintaining their living environment.

(6) Costs Required for Promoting Commercialization

(1,000 yen)

Item	Born by JST	Born by the Local Government	Total
Prefecture X • Cost of goods and supplies • Travel expenses • Rewards, remuneration, etc. • Other			
Total			

【Note】

①Provide costs incurred in maintaining the commercialization promotion system.

②The total for (4), (5), and (6) is the Direct Cost s Born by JST or Direct Costs Born by the Local Government.

V-3. List of Participating Researchers

(Prepare a table as shown below listing the researchers who are to participate in the program and including information showing the relevance of research projects they have participated in previously to this project.)

List of Participating Researchers 【example】

Research Topics	Name of researcher (asterisk (*) indicates topic overview)	Affiliation (Academic degree)	Specialist Field	Effort (see Note)	Name of Project Researcher is Participating in (Name of institution that provided funding) 【Underline ongoing projects】
Topic 1 Development of materials for improving the heating resistance of □□.	******	To be recruited from the Materials Department, School of Engineering, [Name of University] (Doctor of Engineering)	Inorganic materials	10%	Exploratory Research for Advanced Technology (ERATO) Group Leader (*** - ***) 【Japan Science and Technology Agency】
	****	Prefecture ***** Foundation (Doctor of Science)	Metal materials	10%	Core Research for Evolutional Science and Technology (CREST) Researcher (*** - ***) 【Japan Science and Technology Agency】
	3 researchers (anticipated) ・ ・				
Topic 2	・ ・ ・				

If undecided, provide anticipated numbers only.

【Note】

①Prepare on A4 size paper.

②In the "Project Researcher is Participating in" column, include both projects the researcher has participated in the past and ongoing projects they are participating in. If these are numerous, provide the main projects.

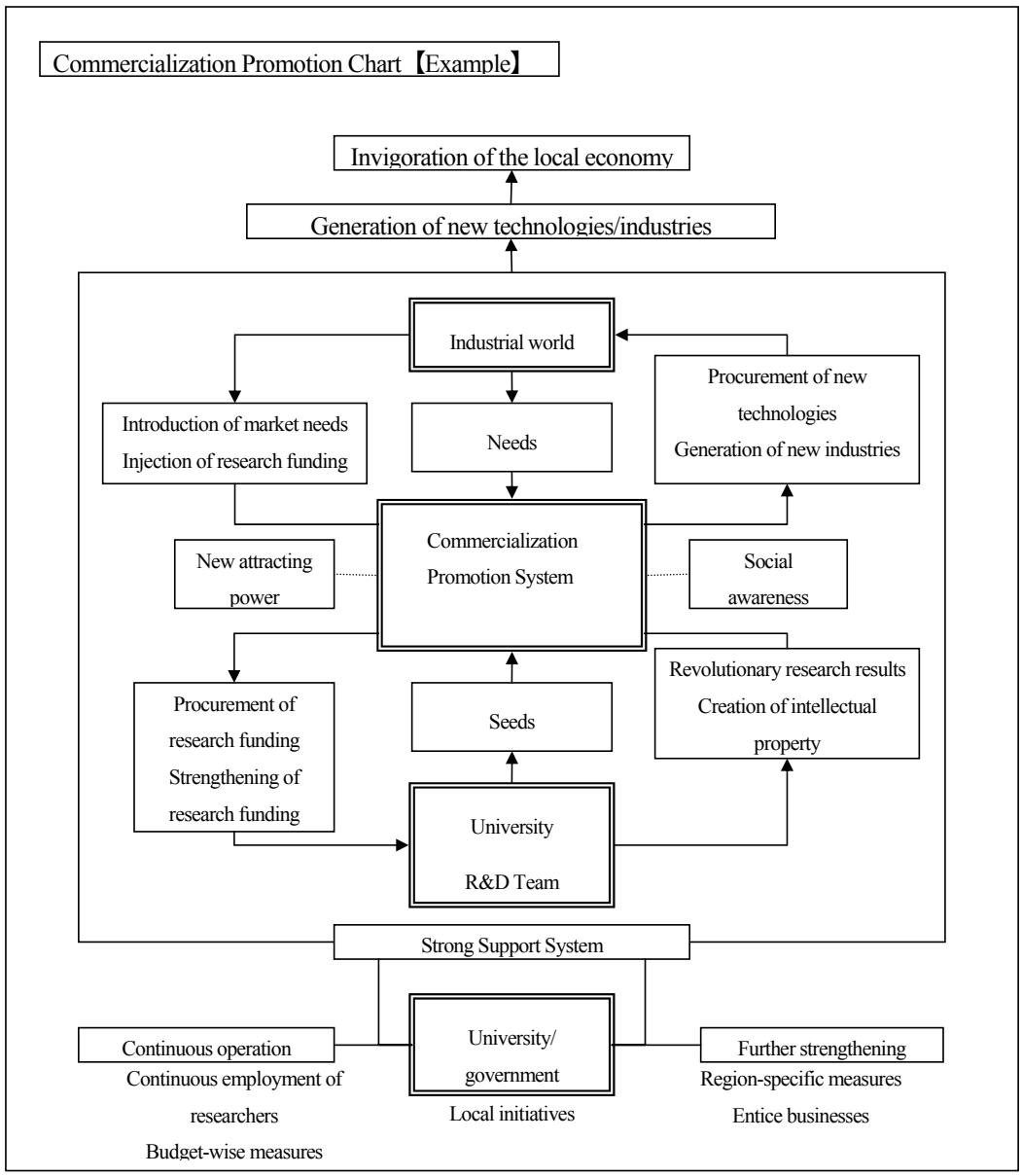
V-4. Plans for Procuring External Competitive Funding

(Since it is expected that the R&D funding provided under this program will be insufficient on its own to enable the R&D to be carried out, you will need to proactively procure other competitive funding. Provide details of your ideas for procuring external competitive funding as well as external competitive funding you expect to procure for carrying out this project.)

VI. Construction of a Commercialization Promotion System

VI-1. Concept of Commercialization Promotion

(Prepare a chart showing an outline of the system for promoting commercialization to be implemented during the term of the project.)



VI-2. Commercialization Promotion Methods

(1) Commercialization Promotion Committee

① Function of the Commercialization Promotion Committee

(Provide information about the specific functions of and envisioned frequency of activity regarding the activity and organization of the commercialization promotion system of a Commercialization Promotion Committee that is established within the Local Government and that decides policies concerning commercialization.)

② Composition of the Commercialization Promotion Committee

(Provide information about the composition and anticipated membership of the Commercialization Promotion Committee. The Meeting should comprise a maximum of 15 members, including the Project Leader and representatives of the university and local government, local industry, and external key figures, and directors of plazas/satellite facilities. If these are insufficient, add appropriate categories as required.)

Affiliation	Position	Name	Notes

(2) Construction of a Commercialization Promotion System

① Function of the Commercialization Promotion System

(Provide information about the envisioned role of the commercialization promotion system devised for carrying out the project based on the current status of regional industry and Dream Team compilation, as well as the creation of new local industries.

② Organizational Structure of the Commercialization Promotion System

(With regard to the commercialization promotion system devised for carrying out the project, provide information about the envisioned set-up location, organization, staff, division of duties between institutions, and uses of external funding. In the case that organizational structure is clearly specified, provide information about this also.)

VI-3. Strategic Scenarios for Commercialization Promotion and New Industry Generation

① During the Term of the Project

(a) Description (in detail) of efforts undertaken to promote commercialization

(b) Specific attainment targets

(c) Anticipated results/effects

② After Completion of the Project

(a) Description (in detail) of efforts undertaken to promote commercialization

(b) Specific attainment targets

(c) Anticipated results/effects

(Provide information in specific detail of how the Local Government intends to promote and expand industry-academia cooperation in and commercialization of the relevant field as well as strengthen the commercialization promotion system during the term of the project and after the project's conclusion.

VI-4. Support for Participating Companies through a Commercialization Promotion System

(You will have provided information on measures for promoting commercialization in VI-1. – 3 above, but here also provide information about any other measures for generating local industries through a commercialization promotion system, such as measures for encouraging and attracting participation in research by local companies.)

VII. Glossary

(Please prepare a glossary explaining specialized terminology.)

【Note】

① Prepare glossary on A4 size paper.

② The glossary may be in color, but colors should be carefully chosen to ensure that figures and text do not become blurred or illegible when the glossary is photocopied in black-and-white.

(Form 3)

CV of the Project Leader

Name		Date of Birth	(Western calendar) (Age:)
Affiliation/Position			
Cross-ministerial R&D Management System (e-Rad) ID	Researcher Number: *(8-digit number)* Affiliated Research Institution Number: *(10-digit number)*		
CV	*Itemize main career events (Graduated [name of university/faculty] in [year]; hired by [name of university]; appointed Head of [department name/university name])*		
Reasons for Recruitment	*①Research history; achievements; ability* *② Research achievements and leadership at the university* *③ Other*		
Details of Planned Activities	① Details of activities based on research history, achievements, and ability		

(Form 4)

CV, Achievements, and List of Main Published Papers for Expert Researchers and the Main Researchers for Each R&D Topic

【In-House Expert Researcher】

Name		Date of Birth	(Western calendar) (Age:)
Affiliation/Position			
Cross-ministerial R&D Management System (e-Rad) ID	Researcher Number: : *(8-digit number)* Affiliated Research Institution Number: : *(10-digit number)* *(Not required if the Researcher Number has not been registered.)*		
Research History			
Main Achievements			
Main Patents/Published Papers			

【Main Researchers】

Name		Date of Birth	(Western calendar) (Age:)
Affiliation/Position			
Cross-ministerial R&D Management System (e-Rad) ID	Researcher Number: *(8-digit number)* Affiliated Research Institution Number: *(10-digit number)* *(Not required if the Researcher Number has not been registered.)*		
CV			
Main Achievements			
Main Patents/Published Papers			

Provide information only for the project leader and sub-topic leaders.

(Form 5)

List of Grants/Subsidies from Public Institutions

Name of Ministry / Local Government / Institution	Name of Project / System	Applicant (Effort*)	Topic Name	Research Period	Amount (1,000 yen)

Provide information for Expert Researchers and the main participating researchers from core universities / Participating Companies (sub-topic leader level).
In addition to grants / subsidies currently being received, include all grants / subsidies from public institutions that are being or are to be applied for during this fiscal year or that have been received in the past 5 years.
In the case of grants / subsidies that are being or are to be applied for during the current fiscal year, write "To be applied for" / "Under application" in the "Amount" column.

*Effort: Allocation rate (%) of time required by participating researchers (universities, etc. and companies) for this program, with participating researchers' entire work load per year at 100% (including research, instruction, medical activities, etc.).

(Form 6)

Documents Explaining the Research Topic in Detail

(In selecting projects, with regard to the plan for the program overall, evaluations are made based on "Form 2. Japan Regional Innovation Strategy Program by the Excellence (J-RISE) Basic Plan (Proposal)". However, with regard to details of the technological content, specialists in the relevant field will also evaluate the project from a more specialized perspective based on these documents. Accordingly, ensure that the information provided in these documents supplements each of the items provided in section "IV. Project Implementation Details" of "Form 2. Japan Regional Innovation Strategy Program by the Excellence (J-RISE) Basic Plan (Proposal) and is of a level that can be read and thoroughly evaluated by a specialist. Conversely, ensure that section "IV. Project Implementation Details" of "Form 2. Japan Regional Innovation Strategy Program by the Excellence (J-RISE) Basic Plan (Proposal) can be easily understood by non-specialists in the relevant research field.)

(Separate Table 1)

Research Field List

No.	Priority research fields	Categories
0101	Life science	Genomes
0102	Life science	Medicine and medical care
0103	Life science	Food science and technology
0104	Life science	Neuroscience
0105	Life science	Bioinformatics
0106	Life science	Environment and ecology
0107	Life science	Materials production
0189	Life science	Basic biology
0199	Life science	Others
0201	Information communications	High speed network technology
0202	Information communications	Security technology
0203	Information communications	Service and application related technology
0204	Information communications	Home appliance networking technology
0205	Information communications	High speed computing technology
0206	Information communications	Simulation technology
0207	Information communications	High speed mass storage
0208	Information communications	Input and output technology*1
0209	Information communications	Human arbitrary and meaning understanding technology
0210	Information communications	Sensor technology
0211	Information communications	Human interface evaluation
0212	Information communications	Software technology
0213	Information communications	Device technology
0289	Information communications	Shared basic research
0299	Information communications	Others
0301	Environment	Global environment
0302	Environment	Regional environment
0303	Environment	Environmental risk
0304	Environment	Recycling-oriented social systems
0305	Environment	Biodiversity
0389	Environment	Shared basic research
0399	Environment	Others
0401	Nanotechnology, materials	Nanomaterials (electronic, magnetic, optic application, etc.)
0402	Nanotechnology, materials	Nanomaterials (structural material application, etc.)
0403	Nanotechnology, materials	Nano-information device
0404	Nanotechnology, materials	Nano-medical and life science application
0405	Nanotechnology, materials	Nanobiology
0406	Nanotechnology, materials	Energy and environmental application
0407	Nanotechnology, materials	Surface and interface
0408	Nanotechnology, materials	Measurement technology and standard technology
0409	Nanotechnology, materials	Processing, synthesis, and process
0410	Nanotechnology, materials	Basic properties
0411	Nanotechnology, materials	Calculation, theory, and simulation
0412	Nanotechnology, materials	Materials and technologies to create safe space
0489	Nanotechnology, materials	Shared basic research
0499	Nanotechnology, materials	Others

No.	Priority research fields	Categories
0501	Energy	Fossil fuel and artificial fuel
0502	Energy	Nuclear energy
0503	Energy	Natural energy
0504	Energy	Energy conservation and energy utilization
0505	Energy	Environmental load reduction
0506	Energy	Cooperation and contribution to international society
0589	Energy	Promotion of basic scientific technologies
0599	Energy	Others
0601	Manufacturing technology	High precision technology
0602	Manufacturing technology	Precision part processing technology
0603	Manufacturing technology	High value added extreme technology (micromachine etc.)
0604	Manufacturing technology	Technologies to minimize environmental load
0605	Manufacturing technology	Quality control and manufacturing floor safety technology
0606	Manufacturing technology	Advanced production technology
0607	Manufacturing technology	Medical and welfare equipment
0608	Manufacturing technology	Assembly process
0609	Manufacturing technology	System technology
0689	Manufacturing technology	Shared basic research
0699	Manufacturing technology	Others
0701	Social infrastructure	Researching mechanisms of and forecasting abnormal natural phenomenon
0702	Social infrastructure	Researching applied technology for mitigating disaster damage
0703	Social infrastructure	Advanced disaster prevention support systems
0704	Social infrastructure	Disaster prevention technology
0705	Social infrastructure	Measures to deal with deterioration of social infrastructure
0706	Social infrastructure	Safety measures for semi-hazardous and hazardous substances
0721	Social infrastructure	Rebuilding living areas in harmony with the environment
0722	Social infrastructure	Broadly-based regional research
0723	Social infrastructure	Improving water cycle and implementing water management
0724	Social infrastructure	Developing new transportation systems geared to the new flow of people and materials
0725	Social infrastructure	Barrier-free access
0726	Social infrastructure	Adoption of universal design
0789	Social infrastructure	Shared basic research
0799	Social infrastructure	Others
0801	Frontiers	Planetary science(including astronomy)
0802	Frontiers	Space exploitation
0821	Frontiers	Marine science
0822	Frontiers	Marine development
0889	Frontiers	Shared basic research
0899	Frontiers	Others
0900	Humanities and sociology	
1000	Natural science	

*1: Indicates technology that simplifies input/output with information communications systems. Note that this does not apply to Research Category Nos. 209 to 211.

(Separate Table 2)

Keywords List

No.	Keywords
001	Genetics
002	Genome
003	Protein
004	Sugar
005	Lipid
006	Nucleic acid
007	Cell and tissue
008	Biomolecules
009	Biodynamics
010	Cytogenesis and differentiation
011	Brain and nervous system
012	Animal
013	Plant
014	Microorganism
015	Viruses
016	Praxiology
017	Evolution
018	Information engineering
019	Proteome
020	Translation research
021	Transplantation and regeneration
022	Health care and welfare
023	Regenerative medicine
024	Food
025	Agricultural, Forestry and Fishery Products
026	Genetically modified food
027	Biotechnology
028	Dementia
029	Cancer
030	Diabetes
031	Circulatory organs and hypertension
032	Allergies and asthma
033	Infectious diseases
034	Cranial nerve disease
035	Aging
036	Drug reaction
037	Biotechnology-related equipment
038	For Tonic network
039	Advanced telecommunications
040	Cable access
041	Advanced Internet technologies
042	Mobile communications
043	Satellite network

No.	Keywords
044	Cryptography and authentication
045	Secure networking
046	Highly Reliable network
047	Copyright and content protection
048	High-performance computing
049	Dependable computing
050	Algorithms
051	Modeling
052	Visualization
053	Analysis and evaluation
054	Recording technology
055	Data storage
056	Large-scale file system
057	Multimodal interface
058	Image, character and voice recognition
059	Most Language processing
060	Automatic tending
061	Virtual reality
062	Agent technology
063	Smart sensor information systems
064	Software efficiency and stability improvement
065	Directory and information retrieval
066	Content archiving
067	System-on-chip technology
068	Device design and manufacturing processes
069	High-density packaging
070	Advanced functional device technology
071	Power saving, high energy density technology
072	Display
073	Remote sensing
074	Monitoring (non remote sensing)
075	Atmosphere phenomena
076	Climatic change
077	Hydrospheric phenomena
078	Geographic phenomena
079	Biological phenomena
080	Qualitative/quantitative environmental forecasts
081	Environmental change
082	Hazardous chemical substances
083	Waste treatment
084	Waste recycling
085	Atmospheric pollution prevention and purification
086	Water and soil pollution prevention and purification

No.	Keywords
087	Environmental analysis
088	Pollution prevention and countermeasures
089	Ecosystem restoration and maintenance
090	Environmental harmonious agriculture , forestry, and fishery
091	Environmentally harmonious urban infrastructure and construction
092	Natural coexistence
093	Policy research
094	Magnetic storage
095	Hyperfine semiconductors
096	Very high-speed information processing
097	Atomic and molecular scale processing
098	Scanning probe electron microscope (STM, AFM, STS, SNOM, others)
099	Quantum dot
100	Quantum wire
101	Quantum well
102	Superlattice
103	Molecular Machine
104	Nanomachine
105	Tunnel phenomena
106	Quantum computer
107	DNA computer
108	Spin electronics
109	Strong correlation electronics
110	Nanotube and fullerene
111	Quantum containment
112	Self organizing
113	Molecular recognition
114	Minority electron device
115	High-performance laser
116	Superconducting material and elements
117	High-efficiency photovoltaic material and elements
118	Quantum beam
119	Optical switching
120	Photonic crystals
121	Microresonator
122	Terahertz / infrared material and elements
123	Nanocontact
124	Supramolecular chemistry
125	MBE epitaxial
126	Monomolecular measuring (SMD)
127	Optical tweezers
128	(Molecular) motor
129	Enzyme reaction

No.	Keywords
130	Confocal microscope
131	Electronic microscope
132	Very thin film
133	Energy in general
134	Renewable energy
135	Atomic energy
136	Solar batteries
137	Photovoltaic power
138	Wind power
139	Geothermal power
140	Waste heat recovery
141	Cogeneration
142	Methane hydrate
143	Biomass
144	Natural gas
145	Energy conservation
146	New energy
147	Energy efficiency
148	Reducing carbon dioxide emissions
149	Reducing greenhouse gas emissions
150	Fuel cell
151	Hydrogen
152	Electric vehicles
153	LNG vehicles
154	Hybrid vehicles
155	Ultra Precision measuring
156	Light Source technology
157	Precision grinding
158	Plasma processing
159	Micro machine
160	Precision parts processing
161	High-speed prototyping
162	Ultraprecision die transfer
163	Injection molding
164	High-speed assembly molding
165	High-speed transmission circuit design
166	Micro connectivity
~~167~~	
168	Human centered production
169	Multicompany joint production systems
170	Quality control systems
171	Low-entropy-oriented manufacturing
172	Seismic isolation (Earth change prediction)
173	Earthquakes
174	Volcanoes
175	Tidal waves
176	Landslides

No.	Keywords
177	Torrential rain
178	High tides
179	Flooding
180	Fires
181	Natural disasters
182	Observing and Predicting natural phenomena
183	Earthquake-resistant engineering
184	Earthquake-control
185	Seismic isolation
186	Disaster prevention
187	Disaster prevention robotics
188	Disaster mitigation
189	System recovery and restoration
190	Rescue
191	Fire fighting
192	Marine safety
193	Emergency communication
194	Crisis management
195	Rio-time management
196	National land development
197	National land improvement
198	National land conservation
199	Broadly-based regional research
200	Living areas
201	Urban development
202	Overpopulated cities
203	Water resources
204	Water circulation
205	Water basin
206	Water resource management
207	Freshwater production
208	Drought
209	Prolonging technology
210	Life-prolonging technology
211	Cost-reduction
212	Environmental management
213	Construction machinery
214	Construction management
215	International corporation
216	International contribution
217	Geographic information system (GIS)
218	Traffic accidents
219	Logistics
220	Next-generation transporting system
221	Intelligent transport system (ITS)
222	Advanced cruise-assist highway system (AHS)
223	Transportation demand management

No.	Keywords
224	Barrier-free access
225	Universal design
226	Transportation equipment
227	Electronic navigation
228	Traffic Control
229	Rocket
230	Artificial satellites
231	Reusable transport systems
232	Space infrastructures
233	Space exploitation
234	Satellite communications and broadcasting
235	Satellite positioning
236	International space station (ISS)
237	Earth surveillance
238	Planetary exploration
239	Astronomy
240	Space science
241	Space transportation
242	Marine science
243	Marine development
244	Marine microorganisms
245	Marine exploration
246	Marine utilization
247	Marine protection
248	Marine resources
249	Deep sea environment
250	Marine ecology
251	Continental shelf
252	Polar region
253	Philosophy
254	Psychology
255	Sociology
256	Pedagogy
257	Cultural Anthropology
258	History
259	Literature
260	Law
261	Economics

(Appendix 1) Scope and Definition of "Small Businesses"

Small and Medium Enterprise Basic Law (Act No. 154 of 1963) (Abridged)

(Scope of Small and Medium Enterprises and Definitions)

Article 2 (abridged):
(1) Any entity which is a company whose capital or total amount of investment does not exceed three hundred million yen (¥ 300,000,000), or a company or an individual whose regular workforce does not exceed three hundred persons, and which is principally engaged in manufacturing, construction, transportation or any other category of business (except those categories of business mentioned in any of items (2) to (4) below);
(2) Any entity which is a company whose capital or total amount of investment does not exceed one hundred million yen (¥ 100,000,000), or a company or an individual whose regular workforce does not exceed one hundred persons, and which is principally engaged in the wholesale trade;
(3) Any entity which is a company whose capital or total amount of investment does not exceed fifty million yen (¥ 50,000,000), or a company or an individual whose regular workforce does not exceed one hundred persons, and which is principally engaged in the service industry;
(4) Any entity which is a company whose capital or total amount of investment does not exceed fifty million yen (¥ 50,000,000), or a company or an individual whose regular workforce does not exceed fifty persons, and which is principally engaged in the retail trade.

○Quick Reference Table of Small and Medium Enterprises Definitions
(Source: Small and Medium Enterprise Basic Law)

Business Category	Amount of Capital	Number of Employees
Manufacturing, construction, transportation or any other category of business	Does not exceed ¥ 300,000,000	Does not exceed 300 persons
Wholesale trade	Does not exceed ¥ 100,000,000	Does not exceed 100 persons
Service industry	Does not exceed ¥ 50,000,000	Does not exceed 100 persons
Retail trade	Does not exceed ¥ 50,000,000	Does not exceed 50 persons

*Business categories for small and medium enterprises are based on the Japan Standard Industry Classification (JSIC) (Bureau of Statistics, Ministry of Internal Affairs and Communications; 11th Revision March 2002)

○Scope and Classifications of Small and Medium, Enterprises Based on the Japan Standard Industry Classification (JSIC)

Wholesale trade	Division J (Wholesale/Retail Trade); groups 49-54
Retail trade	Division J (Wholesale/Retail Trade); Major groups 55-60 Division M (Eating and Drinking Places, Accommodations); Major groups 70 (General eating and drinking places) and 71 (Entertainment places)
Service industry	Division H (Information and communications); Major groups 38 (Broadcasting) and 39 (Communications) as well as 411 (Image information production/distribution), 412 (Voice information production), and 415 (Adjunct services to image/voice/text information production) Division L (Real estate); Major group 693 (Parking lots) Division M (Eating and Drinking Places, Accommodations); Major group 72 (Accommodation) Division N (Health and Welfare) Division O (Education and Learning Support) Division P (Compound Services) Division Q (Services, N.E.C. excluding Major group 831 (Travel))
Manufacturing, etc.	Any other Division of business

(Appendix 2)

Handling of Indirect Costs

The handling of indirect costs, in line with "Common Guidelines for the Execution of Indirect Expenses in Competitive Funds" (agreement at the liaison meeting of related government/ministries on competitive funds, revised March 27, 2009)" and "Illustrations of main uses of indirect costs," is as follows:

○ Uses of indirect costs

Indirect costs are expenditure to be used for improvement in the environment or the capability of a research institution that has been awarded competitive public funds. More specifically, such cost items, of all expenditure necessary for the management of a research institution's research project involving competitive funds, shall include the following:

(1). Expenses incurred for the administration department

−Expenses for facility management and equipment preparation, maintenance and operation

−Expenses required for management affairs

Office equipment, consumables, equipment lease, miscellaneous tasks, labor costs, communications and transportation, rewards, domestic travel, meetings, printing,etc.

(2) Costs incurred in research dept.

- Costs related to articles used commonly

  Cost to purchase fittings, cost of consumables, cost of equipment lease, cost of miscellaneous services, communication/transportation cost, rewards, domestic/oversea travel cost, cost of meetings, cost of printing, cost of newspapers/magazines, cost of energies

- Costs required to promote research activities by applying the relevant research

  Personnel cost of researcher/research assistant, etc., cost to purchase fittings, cost of consumables, cost of equipment lease, cost of miscellaneous services, communication/ transportation cost, rewards, domestic/oversea travel cost, cost of meetings, cost of printing, cost of newspapers/magazines, cost of energies

- Costs incurred in patents
- Costs incurred in the review of life ethics
- Services, maintenance and operation costs for research building
- Services, maintenance and operation costs for experimental animal control facility
- Services, maintenance and operation costs for researchers' exchange facility
- Services, maintenance and operation costs for equipments
- Services, maintenance and operation costs for networks
- Services, maintenance and operation costs for large-scale computers (including super computer)
- Services, maintenance and operation costs for large-scale computer building
- Services, maintenance and operation costs for library
- Services, maintenance and operation costs for farming places, etc.

(3) Other costs incurred in related business depts.
- Costs incurred in research result development businesses
- Costs incurred in public relations, etc.

Costs other than those listed above may be incurred for improvements in the research and development environment for researchers who have won competitive funds, or for general improvements for the whole institution, if they are judged to be necessary by the head of the institution. Those costs which should be treated as direct costs should not be indirect costs.