

Purpose of the Research

The applicant shall indicate the general nature of the research and the specific purpose of the research, after succinctly summarizing it and providing an outline at the beginning, and with the existing academic literature referred to where necessary. In particular, details shall be given clearly with a focus on the following points. [Refer to the rules concerning the screening and assessment for Grants-in-Aid for Scientific Research. (cf. Application Procedures for Grants-in-Aid for Scientific Research)]

- 1) Scientific background for the research (e.g., domestic and overseas trends related to the research and positioning of the research; how the applicant has reached the concept based on his or her achievements in earlier research work; and details of achievements in past research work where the purpose of this project is to attain a greater level of knowledge in a similar area)
- 2) What will be elucidated and to what extent will it be pursued during the research period
- 3) Scientific characteristics, originality and expected results and significance of the research in the area
- 4) Differences in goals if you have applied for a grant for another research project falling into Scientific Research (A) that is associated with the present research; or differences in details of the research if you have applied for a grant for another research project falling into Scientific Research (A) that is not associated with the present research (Persons to whom this applies should be sure to enter this.)

Purpose of the Research (Outline) * Concerning the Purpose of the Research Project, the applicant should succinctly summarize and describe in detail.

Purpose of the Research (continued)

Research Plan and Method

The applicant should provide details of the research plan and the method for achieving the objectives of the research in a clear and specific manner, after succinctly summarizing it and providing an outline at the beginning. The plan should be divided into one for FY2017 and one for from FY2018 on. The literature should be referred to as needed and main points should be highlighted. The plan and methods should indicate achievements through a discussion from different angles, such as action to be taken in the event that the research does not progress as originally planned. Where the research plan is being implemented by a group, indicate the specific roles of the Principal Investigator and the Co-investigator (*kenkyu-buntansha*) of the research team (using figures, tables and other visual aids). In case the research plan is being implemented together with Co-Investigators (*kenkyu-buntansha*), include the necessity and rationality of the project members, and the relationship to the purpose of the research from the scientific viewpoint. In addition, in order to clearly indicate the general view of the research team, state the roles of Co-Investigators (*renkei-kenkyusha*) and Research Collaborators [overseas co-researchers, company-employed researchers not eligible to apply for KAKENHI, other persons offering research support, such as technical experts and intellectual property specialists, graduate students and others (the names and the number of members may be stated)] as needed.

Moreover, if the research environment changes significantly halfway through the research period, due to personnel changes, retirements, etc., the applicant should also describe the way how the location of the implementation of the research is secured, research implementation methods, etc.

Research Plan and Method (Outline) * Concerning the Research Plan and Method to accomplish the Purpose of the Research, the applicant should succinctly summarize and describe in detail.

Research Plan and Method (continued)

Research Plan and Method (continued)

State of Preparations for the Research Plan and Methods to Disseminate the Research Results to Society and Citizens

The following points should be highlighted and stated in a clear and specific manner:

- 1) The current state of research environment, such as research facilities, equipment and materials that are to be used in conducting the research
- 2) The state of preparation for starting the research, such as coordination and contact with project members, in case there are Co-Investigator(s) (*kenkyu-buntansha*) (This should also be stated if appropriate in the case that there are Co-Investigators (*renkei-kenkyusha*) and/or Research Collaborators.)
- 3) How the research achievements will be disseminated to society and members of the public

Entries when Applying for a Grant for the Final Year of a Research Plan

[It is essential that this is filled in by the relevant applicants. (cf. Application Procedures for Grants-in-Aid for Scientific Research)]

The applicant should indicate the initial research plan of a continued research project having FY2017 as the final year in which the applicant participates as the Principal Investigator. The applicant should also state new findings in the research and other research achievements and reasons why the applicant restructures the research plan in the light of developments in the research in question, and applies for the research this time (e.g., the degree to which the research has been developed and a justification of the cost). (Do not include the research achievements of the continued research project stated here in *Research Funding Received and Achievements* on Scientific Research S - 7.)

Research Category	Project Number	Title of Research Project	Research Period
			From FY____ to FY2017

Initial Research Plan and Results

Reasons for Applying

Research Funding Received and Achievements

State the achievements of funded research that is being used for planning the current research from the grants that the Principal Investigator / Co-Investigator (*kenkyu-buntansha*) has received (including KAKENHI, research funding provided by his or her research institution, research funding paid by any ministry/office, local public organization, research promotion corporation, private corporation and any current research funding). Classify the grants into KAKENHI and others. The following should be taken into account:

- 1) For each research funding, state the research category (name of the system for research funding other than KAKENHI), period (fiscal year), title of the research project, whether the applicant is the Principal Investigator or Co-Investigator (*kenkyu-buntansha*), and eligible costs (direct costs) of the research. Also give a clear statement of the research achievements and interim and after-the-fact assessment results (only to be made by the funding organizations). (If there are research progress assessment results for KAKENHI in FY2015 or in FY2016, they should be described in the section “Connection between the Research Plan and the Research Project which received a Research Progress Assessment” on Scientific Research S-9.)
- 2) The applicant should describe them and make a distinction by drawing a line between KAKENHI and other research funding.

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Research Funding Received and Achievements (continued)

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Connection between the Research Plan and the Research Project which received a Research Progress Assessment

- If the Principal Investigator of the current application received a research progress assessment in FY2015 or in FY2016, as a Principal Investigator of “Specially Promoted Research” or “Scientific Research (S)”, he or she should describe it in this section.
- The researcher should describe the connection between the research plan and the research project which received a research progress assessment in this section (e.g. what kind of connection is there, how the researcher will advance the research which received a research progress assessment in concrete terms, etc.).

Protection of Human Rights and Compliance with Laws and Regulations (cf. Application Procedures for Grants-in-Aid for Scientific Research)

Describe the measures and actions that you will take if your research involves compliance with the related laws and regulations (e.g. research requiring the consent and the cooperation of the other party, research requiring consideration for the handling of personal information and research requiring efforts regarding bioethics and safety measures when implementing the research plan). This applies to surveys, research, experiments which require an approval procedure in an ethics committee inside and outside the research institution, such as for example questionnaire surveys and interview surveys in which personal information is involved, the use of provided samples, analysis study of the human genome, recombinant DNA experiments, experiments on animals, etc. Please indicate where this is not applicable.

Rationality and Justification of the Research Costs

The applicant should explain the rationality, necessity and grounds for calculating the research costs to be stated on the following page and thereafter, based on the scale and organization of the research given in *Research Plan and Method*. (details on equipment costs should be noted under "Statement of Costs for Equipment" on the next page) Indicate the necessity of the cost (e.g. breakdown) if, in case of research plans where in any of the fiscal years any of the costs like "equipment", "travel expenses" or "personnel expenditure and remuneration" exceeds 90%, or in the case of research plans with a budget in which expense items under "Miscellaneous" account for a particularly large percentage of the budget in any single fiscal year.

Scientific Research S-11

Major Equipment Currently Used See Procedures for Preparing and Entering a Proposal for Grant-in-Aid for “Scientific Research (S)”					
Research Institution	Equipment	Specifications (type and performance)	Exclusive/ Joint Use	FY of Installation	Remarks

Statement of Costs for Equipment See Procedures for Preparing and Entering a Proposal for Grant-in-Aid for “Scientific Research (S)”						
Describe the capacity and research necessity of primary and expensive equipment, together with why the use of current equipment is impossible under “Rationality and Justification etc.” below. (Unit: Thousands of yen)						
FY	Items and Specifications	Qty	Unit Price	Amount (¥)	Names of Main Users (Researcher and Institution)	When to Purchase
2017						

⟨Rationality and Justification etc.⟩

Scientific Research S-12

Statement of Costs for Consumables and Other Things

See Procedures for Preparing and Entering a Proposal for Grant-in-Aid for "Scientific Research (S)"

(Unit: thousands of yen)

FY	Consumables		Travel Expenses		Personnel Expenditure and Remuneration		Miscellaneous	
	Item	Amount (¥)	Item	Amount (¥)	Item	Amount (¥)	Item	Amount (¥)
2017			(Domestic)					
			(Overseas)					
	Total		Total		Total		Total	
2018			(Domestic)					
			(Overseas)					
	Total		Total		Total		Total	
2019			(Domestic)					
			(Overseas)					
	Total		Total		Total		Total	
2020			(Domestic)					
			(Overseas)					
	Total		Total		Total		Total	
2021			(Domestic)					
			(Overseas)					
	Total		Total		Total		Total	

Proposal of the Researcher Conducting Scientific Research (S) for FY2017

Researcher	Name				Date of Birth (age)	(__ years old)
	Institution, Academic Unit, Position		Academic Degree		Field of Specialization	

Research Achievements

The applicant shall enter his or her key research papers/articles, books (excluding textbooks, abstracts of academic meetings and summaries of lectures), industrial property rights and invited lectures in the sequence of publication from new to old with serial numbers assigned. Forthcoming research papers/articles in academic journals may be included, if they have been accepted for publication.

- 1) For published research papers/articles, state the title, the names of authors, name of the journal, referee reading (or not), volume, page numbers of the first and last pages and year of publication.
- 2) The above mentioned sequence of such items is not compulsory as long as all of the items are included. Only include some authors omitting others, if there are many authors (if any authors' names are omitted, state the number of the authors and the order on the author list for the related researchers). The Principal Investigator should be marked with a double underline, Co-Investigator(s) (*kenkyu-buntansha*) with a single underline, and the Co-Investigator(s) (*renkei-kenkyusha*) with a dotted underline.

Research Achievements (continued)

To be filled in and attached to the proposal for grant-in-aid for each
Principal Investigator and Co-Investigator (*kenkyu-buntansha*)

Scientific Research S-15

Name of researcher					
<p>Application for Research Funding, the Current State of Funding and Effort</p> <p>Since examiners will refer to the information stated here in the collegial screening when they discuss whether a research project will be able to be sufficiently implemented without causing unreasonable duplication or excessive concentration of research funding. It is necessary that the applicant correctly states the budget for the proposed research project that he or she receives and uses.</p> <p>The applicant should take into consideration the following points and enter (1) the research funding applied for, (2) the research funding to be provided and (3) other activities at the time of application by the Principal Investigator and the Co-Investigator(s) (<i>kenkyū-buntansha</i>). Distinguish between sources of research funding by drawing a line, if there is more than one. For the exact method for filling in the necessary data, the applicant should verify the Procedures for Preparing and Entering a Proposal for Grant-in-Aid for “Scientific Research (S)”.</p> <ol style="list-style-type: none"> 1) Fill in <i>Effort</i> with a percentage of time allocation (%) necessary for the implementation of the research where the entire yearly working time is set at 100%. 2) State the title of the research project at the beginning of <i>Research Funding Applied for</i>. 3) In the case of a KAKENHI for “Scientific Research on Innovative Areas (Research in a proposed research area)”, the applicant should state whether it is “planned research” or “invited research”. 4) Include research funding to be competitively provided by the research institution to which the researcher belongs. 5) In the case where the applicant is conducting research in line with a specific purpose (mission) of his/her research institution, he or she should also state the details of the research funding. Moreover, if the amount provided to each individual is not clear, he or she should make a statement to this effect in the section “Differences in details of research and reasons for additional application for a grant for the current research project”. 					
(1) Research Funding Applied for					
Funding system and name of the research funding (research period and name of the funding organization)	Title of the research project (name of the Principal Investigator)	Role (Principal Investigator or Co-Investigator (<i>kenkyu-buntansha</i>))	Budget for FY2017 (throughout the period) (Unit: Thousands of yen)	Effort (%)	Differences in details of research and reasons for additional application for a grant for the current research project (In the case of a Principal Investigator of a KAKENHI, the amount to receive for the whole research period)
Research project for which a grant is applied Scientific Research (S) (2017-____)			()		(total budget in thousands of yen)

To be filled in and attached to the proposal for grant-in-aid for each
Principal Investigator and Co-Investigator (*kenkyu-buntansha*)

Scientific Research S-16

Application for Research Funding, the Current State of Funding and Effort (continued)

(2) Research Funding to be Provided

Funding system and name of the research funding (research period and name of the funding organization)	Title of the research project (name of the Principal Investigator)	Role (Principal Investigator or Co-Investigator or (<i>kenkyu-buntansha</i>))	Budget for FY2017 (throughout the period) (Unit: Thousands of yen)	Effort (%)	Differences in details of research and reasons for additional application for a grant for the current research project (In the case of a Principal Investigator of a KAKENHI, the amount to receive for the whole research period)
(3) Other Activities State the effort for research and educational activities that are carried out as other work than the aforesaid research activities under application or to be funded.					
Total Total of the effort in (1), (2) and (3) above				100 (%)	