

1. Purpose of the Research

The applicant shall indicate the general nature of the research and the specific purpose of the research, after succinctly summarizing and providing an outline around 10 lines at the beginning , with citing academic literature if necessary. In particular, details shall be given clearly with a focus on the following points.

- 1) Scientific background of 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 past research work; and details of achievements of past research work where the purpose is to attain a greater level of sophistication)
- 2) What will be elucidated and to what extent will it be pursued during the research period
- 3) Scientific characteristics, originality and expected achievements and significance of the research in the area

(Outline) * The applicant should succinctly summarize around 10 lines.

(Body) * The applicant should describe “Outline” and “Body” within 2 pages .

2. Research Plan and Methods

The applicant should provide details of the research plan and the methods for achieving the objectives of the research, after succinctly summarizing and providing an outline around 10 lines at the beginning. The plan should be divided into two, the one for FY2017 and the other for FY2018 (if research plan is one year, the applicant should provide only FY2017). The literature should be referred to if necessary. The plan and methods should indicate measures through consideration from multiple aspects, such as the action in the event that the research does not progress as originally planned. In addition, Specific devices for implementing the research (such as ideas and/or the assistance of Research Collaborators to advance the research effectively) should be highlighted.

(Outline) * The applicant should succinctly summarize around 10 lines.

(Body) * The applicant should describe “Outline” and “Body” within 2 pages .

3. Research Activities

The applicant should fill in the important research papers/articles, books, industrial property rights and invited lectures open to the public in chronological order from present to the past (per each year) and put the serial numbers accordingly. Forthcoming research papers/articles in academic journals may be included, only if they have been accepted for publication.

Please describe research achievements focusing primarily on the ones from 2012 onward. It is also acceptable to describe research papers or other achievements (up to ten items) which are closely related to the current research or main articles even if they were published before 2012.

- 1) For a published research papers/articles, state the title, name(s) of author(s), name of journal, absence or presence of peer review, volume, page numbers of the initial and final pages and year of publication.
- 2) The sequence of above items could be reversed as long as all of the items are included. If there are many authors, only state several main authors by omitting others (if any authors' names are omitted, state the number of the authors and the order on the author list). The Principal Investigator should be marked with an underline.

*** The applicant should describe within 2 pages.**

4. Brief Background Description of Research of the Applicant

State the background history of research in chronological order from present to the past, starting from the academic, occupational and research careers. Clearly indicate details of the research and noteworthy occasion(s) (e.g., awards, etc.). The applicant with Condition B) state that got maternity and/or childcare leave.

*** The applicant should describe within 1 pages .**

Grant-in-Aid for Research Activity Start-up – 5

5. 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 concrete and clear manner.

- 1) The current state of research environment, such as research facilities, equipment and materials that are used for the implementation of the research
- 2) The state of preparation for starting the research, such as coordination and contact with Research Collaborators, as needed
- 3) How the research achievements are disseminated to society and people

*** The applicant should describe about half-page. (The upper limit is 1 page)**

Grant-in-Aid for Research Activity Start-up – 6

6. Originality of the proposed project vis-à-vis other project(s) in which the applicant is participating

If applicants are or will participate in other research project(s), describe concretely whether the proposed project is related to the other project and, if so, describe whether it will be implemented actively with original point of view. In this case, describe the type of funding, absence or presence of employment by the funding, the research period, research theme and content, the division of roles, and other aspects of that research project. Please indicate when this is not applicable.

*** The applicant should describe about half-page. (The upper limit is 1 page)**

7. Protection of Human Rights and Compliance with Laws and Regulations

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 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 when this is not applicable.

*** The applicant should describe about half-page. (The upper limit is 1 page)**

8. Rationality and Justification of the Research Costs

The applicant should fill in the rationality, necessity and grounds of calculating for the research costs to be stated in “9. *Details of Budget*”, the following page and thereafter, based on the scale and organization of the research given in “2. *Research Plan and Methods*”. If any of the costs among “equipment”, “travel expenses” or “personnel expenditure and remuneration” exceeds 90% of the total of the fiscal year or “Miscellaneous” accounts for a particularly large percentage of the budget in any single fiscal year, please describe the necessity (e.g. breakdown).

*** The applicant should describe about half-page. (The upper limit is 1 page)**

9. Details of Budget

Regarding research funding required by the research plan, enter by fiscal year the names of articles to be purchased under each cost item, record their amounts and also the total amount in units of 1000 yen (round down numbers to the closest 1000 yen).

*** The applicant should describe within 2 pages .**

(1) Cost for Equipment

| FY | Item and Specifications (Unit price × qty) (Institute where equipment is to be installed) | Amount (thousands of yen) |
|------|--|---------------------------|
| 2017 | | |
| | Total | |
| 2018 | | |
| | Total | |

(2) Cost for Consumables

| FY | Item | Amount (thousands of yen) |
|------|-------|---------------------------|
| 2017 | | |
| | Total | |
| 2018 | | |
| | Total | |

(3) Cost for Travel Expenses

| FY | Item | Amount (thousands of yen) |
|------|-------|---------------------------|
| 2017 | | |
| | Total | |
| 2018 | | |
| | Total | |

Grant-in-Aid for Research Activity Start-up – 10

(4) Cost for Personnel Expenditure and Remuneration

| FY | Item | Amount (thousands of yen) |
|------|-------|---------------------------|
| 2017 | | |
| | Total | |
| 2018 | | |
| | Total | |

(5) Cost for Miscellaneous

| FY | Item | Amount (thousands of yen) |
|------|-------|---------------------------|
| 2017 | | |
| | Total | |
| 2018 | | |
| | Total | |

Grant-in-Aid for Research Activity Start-up – 11**10. Application for Research Funding, Current State of Funding and Effort**

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. 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. 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.

- 1) Fill in *Effort* with a percentage of time allocation (%) necessary for the implementation of the research when the entire yearly working time is set at 100%.
- 2) State the title of the research project at the beginning of (1) *Research Funding Applied for*.
- 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 competitively provided by the research institution to which the researcher belongs.
- 5) In column (3) "Other Activities," enter the amount of effort to be expended for research and education activities conducted outside the parameters column (1) "Research Funding Applied for" and column (2) "Research Funding to be Provided."
- 6) The amount of effort recorded in columns (1), (2) and (3) should add up to 100%.

※The applicant may add lines as required, but should describe within 1 page.

(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 to Grant-in-Aid Research Activity Start-Up (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 Grant-in-Aid for Research Activity Start-up (2017-____) | | Principal Investigator | () | | total budget (thousands of yen) |
| | | | () | | total budget (thousands of yen) |

(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 (<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 to Grant-in-Aid Research Activity Start-Up (In the case of a Principal Investigator of a KAKENHI, the amount to receive for the whole research period) |
|--|--|--|--|------------|---|
| | | | () | | total budget (thousands of yen) |
| | | | () | | total budget (thousands of yen) |

(3) Other Activities Efforts : %