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 of past research work where the purpose of this project is to attain a greater level of knowledge in a similar field)

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

Challenging Exploratory Research	<u> </u>
Novelty and shallongs of the research	
Novelty and challenge of the research	
Describe concretely and clearly focusing on the following points:	
1) In what way does the current research have novel ideas and a challenging nature?	
2) Elements which demonstrate that the current research will facilitate the development of new theories, novel ideas and will propose no	
methodology, elements which demonstrate that the current research is promising in that it will yield outstanding research achievements is	if it
succeeds, etc.	
succeeds, etc.	

Research Plan and Method

The applicant should provide details of the research plan and the methods 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 FY2016 and one for from FY2017 on. The literature should be referred to as needed and main points highlighted. Moreover, where the research plan is being implemented by a group, indicate the specific roles of the Principal Investigator and Co-Investigators (kenkyu-buntansha) (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 group, 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.

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.

Challenging Exploratory Research - 4 Research Plan and Method (continued)

<u>Challenging Exploratory Research - </u>
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 cost to be stated on the following page and
thereafter, based on the scale and organization of the research given in Research Plan and Method. 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
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"
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(Unit: thousands of yen)

See Proc	Statement of Costs for Equipment See Procedures for Preparing and Entering a Proposal for Grant-in-Aid for "Challenging Exploratory Research"						Statement of Costs for Consumables See Procedures for Preparing and Entering a Proposal for Grant-in-Aid for "Challenging Exploratory Research"			
T-3.7	Item and Specifications				Amount	Research			Amount	
FY	(Unit price × qty) (Institute where equipment is to be installed)			(¥)	Item			(¥)		
2016										
Staten	nent of Costs f	or Trav	rel Expenses Se	e Procedui	res for Prepa	aring and	Entering a	Proposal for Gran	nt-in-Aid for	
	ging Exploratory Resear	ch"								
	Domestic Tra		Overseas Tra			nel Expen		Miscellar	160118	
FY	Expenses		Expenses			Remunera			,	
2016	Item	Amount	Item	Amount	Ite	<u>m</u>	Amount	Item	Amount	

Application for Research Funding, Current State of Funding and Effort

Since examiners will refer to the information stated here in the second screening (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 for "Challenging Exploratory Research".

- 1) Fill in *Effort* 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 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 to be competitively provided by the research institution to which the researcher belongs. (1) Research Funding Applied for Role (Principal Budget for Differences in details of research and Funding system and name of the Title of the research project Effort FY2016 reasons for additional application for a Investigator or research funding (research (name of the Principal (%) Co-Investigator (throughout grant for the current research project period and name of the funding Investigator) (kenkyu-buntan the period) (In the case of a Principal Investigator of organization) sha)) (Unit: a KAKENHI, the amount to receive for Thousands of the whole research period) yen) Research project for which a grant is applied Principal Challenging Investigator Exploratory Research (total budget in thousands of yen) (2016-

<u>Challenging Exploratory Research - 8</u>

Application for Research Funding, 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 (kenkyu-buntan sha))	Budget for FY2016 (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)			
(2) Othor Activities					the whole research period)			
(3) Other Activities								
	arch and educational activities rch activities under application							
Total	and application	and to be funded.		100				
Total of the effort in (1)	, (2) and (3) above	(%)						