

(PRESTO-Form 1)

Research Proposal of PRESTO

Proposed Research Area	
Research Subject (in approximately 10 words in English)	
Name of Researcher	
Institute, Section, Official title to which applicant belongs	
Researcher No.	(Please enter the Researcher's Number of Grant-in-Aid for Scientific Research. Those without this number are to enter the 8-digit Researcher No. provided when registering researcher information on e-Rad [http://www.e-rad.go.jp/] (Japanese only now))
Academic Records (University and higher education)	(Example) Kawaguchi Institute of Technology, Kawaguchi, Japan B.S. in Electronic Engineering, Semiconductor technology minor, 1993 Graduate School, JST University, Kawaguchi, Japan M.S. in Electronic Engineering, 1995 Dissertation: (Title to be specified, when available) Instructor: Professor John Smith, Ph.D. Graduate School, JST University, Kawaguchi, Japan Ph.D. in Electronic Engineering, 1998 Thesis: (Title to be specified, when available) Instructor: Professor John Smith, Ph.D.
Research Experience (Major jobs and studies)	(Example) Apr. 2003 – Present Research Associate, JST Research Institute Research subject: (Title to be specified) Advisor: Professor John Smith, Ph.D. Apr. 1998 – Mar. 2003 Postdoctoral Research Assistant, Faculty of Electronic Engineering, JST University Research subject: (Title to be specified, when available)
Research period and cost	<input type="checkbox"/> 3 years <input type="checkbox"/> 5 years (only Research Areas started in 2008 and 2009) Total desired research cost for entire research period (yen) ※Enter the amount without indirect operational expenses.
Application for High-impact Type (for Research Area started in 2008 or 2009 only)	<input type="checkbox"/> Apply for the selection of High-impact Type. ※If an applicant wishes to apply, please complete a Form 7. ※There may be cases in which the proposal is selected for Standard Type based upon the selection results. ※Applications only for High-impact Type will not be accepted.
Preferences about the place of the research	<input type="checkbox"/> The institute the researcher belongs to currently <input type="checkbox"/> Other (The place of the research:)

• **Research Area to apply for**

Please note that no application can be made for both CREST and PRESTO.

• **Researcher No.**

Applications are effectuated through e-Rad; however, before using e-Rad, it is necessary to register researcher information on e-Rad. Those without e-Rad login ID should contact their affiliated research institute coordinator or the e-Rad Helpdesk (see Application Points Appendix 3) without delay.

Outline of Research Subject

○ Outline of Research Subject

Summarize the main points of your “Research Concept” (PRESTO-Form 3) in approximately 200 words in English.

● Proposal keywords

Select up to five (5) keywords that should help explain the Research Subject from the keyword list (Appendix 1) attached at the end of this volume. Write those keywords and their numbers. If no applicable keywords are available in the list, write your own keyword(s) with an asterisk (*) at the beginning.

Example: No.001: Gene, No. 002: Genome, No. 010: Cytogenesis and differentiation, * XXX

● Research field

Select one (1) main research field and one (1) to three (3) sub-field(s) that best describe the fields into which the Research Subject is categorized from the research field list (Appendix 2) attached at the end of this volume. Write their numbers and research categories.

Example: Main research field: No. 0101: Genome

Sub-field(s): No. 0102: Medicine and medical care, No. 0104: Brain sciences

● References

Provide the names of two (2) individuals who have good knowledge of your Research Subject (A non-Japanese person is acceptable). Write each person’s name, institution and contact information (phone/fax numbers and e-mail address). The evaluators (Research Supervisor and Research Area Advisors) might contact them in reference to the research proposal during the process of screening (preliminary evaluation). Providing this reference information is not mandatory.

Research Concept

-Write in a manner that is easy for evaluators to understand. To this end, add graphics and tables where necessary.
-The length should be approximately five A4-size pages. However, necessary and sufficient description is more important. For that reason, the quantity is not fixed.

1. Aim of Research

2. Definite Research Background

Describe the process through which you reached the research vision concerned, and relationship with your previous research, etc.

3. Originality and novelty of the research and comparison to similar studies

Describe the research trend of related fields, domestic and international.

4. Contents of research

List and describe for each item the necessity of research, preliminarily available knowledge and data, and definite research subjects, and the way to advance thereof (including anticipated problems in the aim and goal achievement, their possible solutions, etc.).

5. Future prospect of research

Describe the contents of the contribution of your research to the future society, such as expected outcomes, future prospect, accumulation of intellectual property, and invention of new technologies.

List of research papers, literary works and patents

- **Major literature**

Author(s) (List all authors), title of the paper published, publication in which the paper was published, volume and page numbers and publication year

List research papers or literary works that are considered to be important from those published in academic publications in recent years. List them in reverse-chronological order of the year of publication. Place an asterisk (*) at the beginning of the title of the paper/books of which the applicant is the chief author. Items to be written are as above in a free order.

- **Bibliography**

Author(s) (List all authors), title of the paper published, publication in which the paper was published, volume and page numbers and publication year

List any relevant literary works that are necessary for understanding your research proposal. (Place an asterisk (*) at the beginning of the title of the paper/books for which the applicant is the chief author (if any)).

- **Major patents**

Application number, inventor, title of invention, applicant and date of application

Items to be written are as above in a free order.

Grants from Other Aid Programs

List grants from the government Competitive Research Funds and any other research subsidies that the Applicants are currently receiving, applying for, or planning to apply for by program name, indicating the Research Subject title, research period, roles(representative, participant, etc.), amount of research expense and effort. Your entitlement to the JST funds might be cancelled on a later day even if you have been selected should your presentation fail to be accurate.

Example:

Fund Name ¹⁾	Research Subject Title (Director Name)	Research Period	Roles ²⁾ (Director/ Allocation)	Research Expense ³⁾ (1) FY 2009 (2) The whole period	Effort (%) ⁴⁾
PRESTO					80
Grants-in-Aid for Scientific Research (Basic Research C)	XXXXXXXXXXXX	April,2008 to March, 2011	Director	(1)2,000/yr (2)3,000/yr	10

- 1) List grants that the Applicant is currently receiving, or adopted, in descending order of research expenses (the whole period).
Then list those the Applicant is currently applying for or planning to apply for (specify "under application" in the column "Fund name").
- 2) Describe Directorship or allocated work as "Role".
- 3) Describe the amount of funds the Applicant him/herself is receiving as "Research expenses" in units of 1,000 yen.
- 4) Describe as "Effort" the percentage of the time required for the research concerned in the total work hours of a researcher, letting all annual working hours be 100% (not only time for research activities but education, medical services, etc. are included.) [Note that this definition of Effort is given by the Council for Science and Technology Policy.] Describe Effort not for grants the Applicant is currently applying for or planning to apply for, but for grants the Applicant is currently receiving assuming that only PRESTO proposal is selected. Note that the Efforts for PRESTO and for the grant currently being receiving shall not exceed 100% in total.
- 5) Add writing spaces if necessary.

Other Special Information

- Write freely the reason(s) why you have applied for the Basic Research Programs, any requests concerning your research, or any other concerns that you might have. •
- Use this space to write the reason(s) if you request that your research take place overseas.

Application Documents for the High-impact Type

※Masked screening shall be performed using only these documents in the third screening process for the High-impact Type. Please write in a manner by which the individual applicants will not be identifiable.

※Write in a manner by which an evaluator in a different field will be able to easily understand.

※Write within two A4-size pages.

1. Outline of Research

Summarize the main points of the Research in English in approximately 200 words.

2. Innovativeness and Originality of Research

Describe the novel and innovative ideas that breakthrough the existing common assumptions, the possibility of new findings and innovations as a result of the development of research, the possibility of bringing change to existing scientific areas, and the possibility of creating new scientific areas.

3. Goal and Concept towards Achievement of Goal

Describe the goal to be achieved during the research period for the High-impact type. Also, describe the manner in which the goal is to be achieved (include the assumed midterm goal 3 years after the start of the Research for a 5 year program), the clues to preliminary findings and data, and the expected difficulties.

4. Impact and Ripple Effect on Society, Economy and Science in the Future.

Describe the impact and ripple effect expected in 10 to 20 years.