(PRESTO-Form 1)

**FY 2017 Application PRESTO Research Proposal**

|  |  |
| --- | --- |
| Research Area | Innovational technical basis for cultivation in cooperation with information science |
| Title of the proposed research project |  |
| Name of the Individual Researcher |  |
| Affiliated Institution, Section, Title |  |
| Researcher ID No. |  |
| Academic Background(since graduation from University) |  |
| Professional Appointments(including research work experience) |  |
| Information about the Individual Researcher | URL:  |
| Type of the Proposal(Please select one type.) | □Mathematics/Informatics□Agriculture/Plant Science□Agriculture-Informatics Interdisciplinary Science |
| Collaborative Proposal | □Yes (Name of the Collaborative Researcher: )□No  |
| Total Requested ResearchBudget  | Total requested Budget: \_\_\_\_\_\_\_\_\_\_ million yen (Do not include indirect cost) |
| Affiliate Appointment | □Joint Appointment 　　□Exclusive Appointment |
| Effort for the Proposed Research | The Effort in FY2017:　　％ |
| Place to Pursue the Research Work | □ Present Affiliated Institution□ Other (Place to Pursue the Research work: ) |

(PRESTO-Form 2)

**Research Proposal Overview and Major Achievements of the Research Project Applicant**

*―Please delete italicized instructions and other notes from the research proposal forms.*

**1. Outline of the Research Project**

*Regarding “Outline of the Research Project”, there is a slight difference from the standard instructions described in the chapter 3.3 “Research Proposal (Form) Completion Requirements" of the application guideline. Please refer to the following instructions described in this form.*

*■Provide an overall description of the research proposal in* ***less than two A4-size sheets*** *(no exceptions). Use 10.5 point or larger font size (If these instructions are not followed, the research proposal might not be accepted).*

*■Form 2 chiefly covers material that is critical for documentation-based selection. It will be evaluated from the perspectives below:*

*a) Is it aligned with the goals of the solicited Research Area (Can the proposal be expected to contribute to fulfilling the purpose of the Research Area? Mainly, does the proposal correspond to items a. and b. in “(1) Selection Standards (Preliminary Evaluation Standards)” in Section 5.1.3, “Selection Perspective”)?*

*b) Is it aligned with the goals of the PRESTO Program (Mainly, does the proposal correspond to the goal noted in c. in “(1) Selection Standards (Preliminary Evaluation Standards)” in Section 5.1.3, “Selection Perspective?” for “Basic research that is unique, highly appreciated internationally, and expected to produce outstanding results that contribute greatly to science and technology innovation?”)?*

*Therefore, in this form, provide a brief description that focuses on the details corresponding to Item 1, “Background and Purpose,” and Item 2 “Research Plans and Approach” from PRESTO Form 3 (Project Description), and provide the minimum explanation (corresponding to Items 3 to 7 on Form 3) required to understand you*r *description above (The scientific/technical evaluation of the validity and feasibility of the Project Description will be considered mainly with PRESTO Form 3).*

*■A preliminary selection entailing a documentation-based selection for each Research Area may be held from the perspectives of a) and b) above.*

*■Insert figures and tables (in color) appropriately to be undertaken clearly.*

**2. List of principal research papers/invited lectures**

*Do not exceed two A4-size sheets (no exceptions)*

*- On* ***no more than one A4-size sheet*** *(no exceptions), list your principal research papers and invited lectures (If these instructions are not followed, the research proposal might not be accepted).*

*- Adjustment to font size and line spacing is acceptable.*

**(1) List of principal research papers**

*- Enter up to five of the research project applicant’s principal research papers selected from section 1 of PRESTO Form 4. (Enter the same information, and use the format, as shown in PRESTO Form 4 section 1.)*

*- Sequentially number each item with a number at the beginning of each title.*

**(2) List of principal invited lectures**

*- Enter up to five lectures the research project applicant was invited to give (if any).*

*- Sequentially number each item with a number at the beginning of each title.*

*Do not exceed one A4-size sheet (no exceptions)*

# (PRESTO-Form 3)

# Project Description

*Regarding “the Form 3-Project Description”, there is a difference from the standard instructions described in the chapter 3.3 " Research Proposal (Form) Completion Requirements” of the application guideline. Be sure to refer to the following instructions described in this form.*

*- Please describe as clearly as possible for the expert evaluators from different fields. Figures and tables (in color) may be included if necessary.*

*-* ***Do not exceed six A4-size sheets*** *(no exceptions). Use 10.5 point or larger font size (If these instructions are not followed, the research proposal might not be accepted).*

*- Please delete the italicized instructions and other notes from the research proposal forms.*

## 1．Background and Purpose

*Please state the purposes of your research proposal and provide any background to your conceptions, including the connections with your research work to date as the evidence to proceed with your proposed research.*

## 2．Research Plans and Approach

*Please state the goals of your research proposal and list the specific R&D items required. Explain your methods to proceed with research tasks, and the outcome of your proposed research, including the following points according with your type of proposal.*

***■Type of the Proposal: Mathematics/Informatics***

*(I)The method of collection and utilization of data, and the data analyzing method in the field of mathematics/informatics（Please describe the contribution of the method to your research, and　the innovativeness of your mathematical/informatics approach compared with previous studies.）*

*(II) Validation of the proposed method in the field of cultivation.*

*（If it is difficult to state concretely, you may describe just your idea for validation）*

***■Type of the Proposal: Agriculture/Plant Science***

*(I) The method of collection and utilization of data by the measurement methods in the field of agriculture/plant science（as well as the innovativeness of your agriculture/plant science approach compared with previous studies）*

*(II) Data analyzing method in the field of mathematics/informatics*

*（If it is difficult to state concretely, you may describe just your idea for analysis.）*

*(III) Validation of the proposed method in the field of cultivation.*

***■Type of the Proposal: Agriculture-Informatics Interdisciplinary Science***

*(I) The method of collection and utilization of data by the measurement methods in the field of agriculture/plant science*

*(II) Data analyzing method in the field of mathematics/informatics*

*（Regarding (I) and (II), please describe the contribution of the method to your research, as well as reason for your selection of the methods. If it is possible to describe innovativeness of your approach compared with previous studies, please state it.）*

*（III）Validation of proposed method in cultivation fields*

## 3．Collaborative Research Plans and Approach

## （Required for researchers who submit collaborative proposals）

***It is possible to submit collaborative proposals with any proposal type for this research area, that is, “Mathematics/Informatics”,” Agriculture/Plant Science”,” Agriculture-Informatics Interdisciplinary Science”. Collaborative proposals are required to include the individual research theme, considering the point that PRESTO research program supports individual research theme.***

*Please describe concretely how to pursue your collaborative research items as well as the contents of the items, including the necessity and effectiveness of collaborator’s work for the proposed research, and expected research results by the collaboration. As for the applicants who submit collaborative proposals, we evaluate the collaborative research plans as well. We hope the collaboration, in the true sense of the word, includes researchers from different fields of sciences work together for a profound research understanding and drastic proceeding of each other’s work.*

## 4．Originality and Innovativeness of the Proposal and Comparison with Similar Research

*Please provide the research trends in the related fields in Japan and abroad and the originality and innovativeness of your proposed research based on this background.*

## 5．Future Prospect of Research

*Please describe how your research results, including new technology as the result of proposed research, will lead to sustainable cultivation and agriculture, as well as what the future society and environment surrounded with agriculture will be like.*

## 6．Necessity of learning from other research fields

*As stated in the Item 2 “Research Plans and Approach”, please describe the different fields of knowledge and methods for you to learn more, and how you would proceed with your proposed research and expand your own research theme with such knowledge and methods. As for applicants who have selected either type of “Mathematics/Informatics” or ”Agriculture/Plant Science”, we evaluate their will to acquire different fields of knowledge and methods, rather than their current knowledge of different fields itself.*

## 7．Explanation of Keywords

(PRESTO-Form 4)

*Do not exceed six A4-size sheets (no exceptions)*

**List of Publication and Patent**

*- Please delete italicized instructions and other notes from the research proposal forms.*

**1. Principal research papers, books, and other publications**

*- List selected research papers, books, and other publications of the research project applicant, in*

*reverse-chronological order, which are considered to be relevant to the proposed research project and published in recent years. Place an asterisk (\*) at the beginning of the title of the papers / books of which the applicant is the first*

*author.*

*- Follow the format below when listing research papers (For books, adhere to this format). Item sequence is not　fixed.*

*Author(s) (all authors), title, title of journal/book, volume and page numbers, and published year.*

**2. Research papers/publications other than the above**

*-In addition to the works provided in 1 above, list any relevant and recent achievements that helps understanding the*

*proposed research project or that represent research project applicant’s research work. (Place an asterisk (\*) at the beginning of the title of the papers / books of which the applicant is the first author (if any)).*

*- Follow the format below when listing research papers (For books, adhere to this format). Item sequence is not fixed*

*Author(s) (all authors), title, title of journal/book, volume and page numbers, and published year*

**3. Major Patent**

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

(PRESTO-Form 5)

**Information on Other Supports**

(Note)

- Your entitlement to the JST funds may be cancelled at a later date even if you have been selected should your presentation fail to be accurate.

- If the results of applications for research grants become known, or if there are other changes in circumstances during the research proposal selection process that require that the information provided in this form be updated, please prepare a revised version of this form and send a message to the email address provided at the end of these requirements.

- Should you be selected for participation in the interview stage of the selection process, you may be asked to provide information on applications, plans, etc. submitted to other programs.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Program** | **Status** | **Title of Project****（Name of principal investigator）** | **Research Period** | **Role** **(Principal Investigator or co-Principal Investigator)** | **(1) Allocated Budget****(For entire period)****(2) FY 2017 (planned)****(3) FY 2016** | **Effort****(％)** |
| PRESTO | Submitted | Please fill in the right box “Effort(%)” with your effort for this proposed research. |  |
|  |  |  |  |  | (1) M yen(2) M yen(3) M yen |  |
|  |  |  |  |  |  |  |

(PRESTO-Form 6)

**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 when implementing the research plan, research requiring consideration for the handling of personal information and research requiring efforts regarding bioethics and safety measures).*

*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 in which personal information is involved, interview surveys, 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.*

　*- Please delete italicized instructions and other notes from the research proposal forms.*

(PRESTO-Form 7)

**References and Additional Statement**

**・References**

*Provide the names of two (2) individuals who have good knowledge of your Research Project (non-Japanese*

*person(s) are acceptable). Provide names of the reference person, institution and contact information (phone*

*numbers and e-mail address). The evaluators (Research Supervisor and Research Area Advisors) may contact them*

*regarding the research proposal during the screening process. Providing this reference information is not mandatory.*

　*- Please delete italicized instructions and other notes from the research proposal forms.*

**・Additional Statement**

*- If you apply for the same research area as you have proposed before, state the difference from the previous proposal(s).*

*- If participation of overseas is planned, please refer to “3.2.4 Proposal Submission Requirements” and describe reasons and necessities.*

*Other than stated above, state the reason(s) why you have applied for PRESTO, any requests concerning your*

*research, scheduled or planned changes in your professional position, or any concerns that you might have*

*- Please delete italicized instructions and other notes from the research proposal forms.*

(PRESTO – Attachment)

Proposal Preparation Checklist

○ Please give yourself plenty of time to go complete this checklist.

|  |  |  |
| --- | --- | --- |
| Check | Reference Material |  |
| Have you completed e-Rad researcher registration? | Chapter 10 | □ |
| Have you completed the educational program on research integrity? | Section 8.1 | □ |
| Conflict of interests with the Research Supervisor\* | Section 5.1.1 |  |
| a | The research project applicant is a relative of the Research Supervisor. | No □ |
| b | The research project applicant and the Research Supervisor are both affiliated with the same smallest organizational unit (e.g. same research lab) of a university, national or other national government-funded research and experiment institution. Or, the research project applicant and the Research Supervisor are affiliated with the same company. | No □ |
| c | The research project applicant and the Research Supervisor are presently working in close cooperation on the same joint research project. Or, have done so within the past five years.(Existence of close cooperation will be judged from the facts that, for example, the research project applicant and the Research Supervisor are working together on the same research project, are performing different parts of the same research project, or are co-authors of a research paper. If you have any questions, please contact JST) | No □ |
| d | The research project applicant and the Research Supervisor were in a close teacher-student relationship for a total of more than 10 years (not necessarily continuous), or were in a direct employer-employee relationship. “Close teacher-student relationship” means cases in which the research project applicant and the Research Supervisor were affiliated with the same research lab, and cases in which the Research Supervisor, though affiliated with a different organization, essentially functioned as a research advisor for the research project applicant. | No □ |

\* When it is unclear whether any of the above conditions apply, please download and fill the Inquiry Form (http://senryaku.jst.go.jp/teian/en/koubo/h29youkou\_form-en.doc) and send it via email to rp-info@jst.go.jp.

Prior to electronic submission via e-Rad, please ensure that the proposal complies with the instructions in the format specified.

Just before the deadline, e-Rad System would be slow due to heavy load. Please give yourself plenty of time to complete submission.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Items | Check |  |
|  | Input of general information on the applicant to e-Rad | All necessary information is provided. | □ |
| Form 1 | Information on the applicant | All necessary information is provided.Information is matched with e-Rad data. | □ |
| Form 2 | Research Proposal Overview and Major Achievements of the Research Project Applicant | When converted to PDF format: Is Item 1 no more than two pages long? Is Item 2 within one page? | □ |
| Form 3 | Project Description | Form 3 must fit in 6 A4 sheets as a PDF file. | □ |
| Form 4 | List of Publication and Patent  |  | □ |
| Form 5 | Information on Other Supports | All necessary information is provided. | □ |
| Form 6 | Protection of Human Rights and Compliance with Laws and Regulations | Even when this is not applicable, please indicate that. | □ |
| Form 7 | References and Additional Statement |  | □ |