

Chapter 8 Key Points in Submitting Proposals

- Violation of the guidelines provided in this chapter or any other inappropriate behavior may result in withdrawal of approval for the research project or cancellation of the research; return of all or part of the project's research funding, and measures taken to publicize the facts of the matter.
- Violation of related laws or guidelines, etc., in conducting research may result in cancellation of your research funding allocation or withdrawal of the research funding allocation decision.

8.1 Enrolling in and Completing the Educational Program for Research Integrity

The research project applicant must complete the educational program for research integrity as a prerequisite for application. Note that if completion of the program cannot be confirmed, the application will be disqualified for failing to meet the requirements (For the CREST program, enrollment in and completion of the research integrity educational program by the time of application is not a prerequisite for Lead Joint Researcher applicants).

To enroll in the educational program for research integrity and to submit a declaration of completion, follow either procedure (1) or (2) below. For application instructions using e-Rad, refer to Chapter 10, "Recruiting via the Cross-ministerial R&D Management System (e-Rad)."

(1) For applicants who have completed an equivalent program at their institution

Applicants who have already completed an e-learning program or educational seminar on various aspects of research integrity (including the CITI Japan e-learning program) by the time of their application are requested to make the declaration on the e-Rad application information entry screen.

(2) For applicants who have not completed an equivalent program at their institution (including for applicants at institutions that do not have such a program)

a. Applicants who have in the past completed a CITI Japan e-learning program in a JST program.

Applicants who have in the past completed a CITI Japan e-learning program in a JST program by the time of their application are requested to make the declaration on the e-Rad application information entry screen.

b. For other applicants for whom a. above does not apply.

Applicants who find it difficult to enroll in an educational program for research integrity because their institution does not offer such a program at their institution or for other reasons may enroll in and take the condensed version of the CITI Japan e-learning program offered through JST. Instructions for enrolling in this program may be found on the Invitation of Research Proposal website: <http://www.senryaku.jst.go.jp/teian-en.html>

There is no cost for enrolling in and completing the program, which will take between one to two hours to complete. Once enrolled, applicants are expected to complete the program without delay and then to declare the completion of the program and to also enter the certificate completion number from the completion certificate (the Ref # to the right of the completion date) in the e-Rad application information entry screen.

■ Contact for consultation on the educational program for research integrity

Japan Science and Technology Agency
Department of Audit and Legal Affairs, Research Integrity Division
E-mail : ken_kan@jst.go.jp

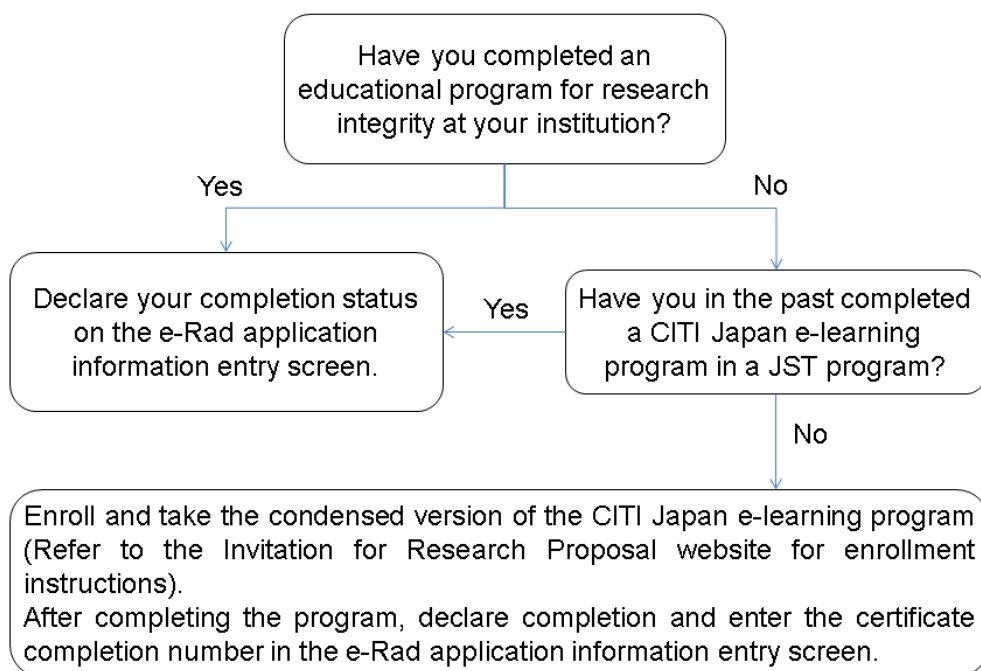
■ Contact for consultation on the public invitation for application

Japan Science and Technology Agency
Department of Innovation Research
E-mail : rp-info@jst.go.jp

* Include the program name, e-Rad project ID, research applicant name and the project name in the body of the email.

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Flow chart for declaring enrollment and completion of the educational program for research integrity.



JST has required researchers participating in CREST, PRESTO, and ACT-I research projects to enroll in and complete seven designated modules of the CITI Japan e-learning program. Since the requirement will remain unchanged for FY2017, in principle all research participants (including CREST Lead Joint Researchers) will be required to enroll in and complete the seven designated modules from the CITI Japan e-learning program (excluding applicants who have already completed the seven designated modules from the CITI Japan e-learning program at their institution or in a JST program).

8.2 Handling of Information Provided in Research Proposals, Etc.

○ From the standpoint of maintaining the interests of the applicant, the “Act on the Protection of Personal Information Held by Independent Administrative Agencies, etc.”, and other standpoints, research proposals shall not be used for any purpose other than the selection process. Confidential information regarding research proposal details shall be strictly maintained. For details, please refer to the following website.

<http://law.e-gov.go.jp/htmldata/H15/H15HO059.html>

○ Handling of Information Regarding Selected Projects

Information regarding individual projects that have been selected (name of system, name of research project, name of affiliated research institution, name of Research Director, budget amount, implementation period, etc.) shall be deemed to be “information that is scheduled to be made public” as prescribed under Article 5, Paragraph 1, Item (a) of the “Act on Access to Information Held by Independent Administrative Agencies” (Act No. 140 of 2001).

The name of the researcher, name of the affiliated research institution, name of the research project, and the research project overview summary are scheduled to be made public. In addition, the research proposals of selected applicants may be used by the JST to promote the research after the proposal’s approval.

○ Provision of Information from the Cross-ministerial R&D Management System (e-Rad) to the Government Research and Development Database

The Fifth Term Basic Plan of Science and Technology is said to attempt to complete the registration of funds for

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public solicitation for the promotion of science and technology innovation policies based on objective evidence in a research and development management system common to ministries in order to perform evaluation and analysis. Information registered in e-Rad is utilized for properly evaluating research and development with the country's fund and for planning effective and efficient comprehensive strategies. For the purpose, CSTI and relevant ministries have decided to complete registration of achievement information and accounting achievements, such as papers and patents, in e-Rad in order to connect output and outcome information related to inputs to the publicly solicited research fund system.

Information on research achievement and accounting and on use of indirect expenses related to competitive fund for adopted issues shall be input in e-Rad every year. The information necessary for macroscopic analysis, including information on research achievement and accounting performance, will be provided to the cabinet office.

8.3 Measures against Unreasonable Duplication and Excessive Concentration

○ Measures against “Unreasonable Duplication”

In the case that a researcher is unnecessarily receiving competitive funding from multiple sources for the same research project (name or content of research receiving competitive funding; hereinafter the same shall apply) being undertaken by the same researcher and any of the following applies, the researcher shall be made ineligible to apply for this program, selection of their research project withdrawn, or their research funding reduced (hereinafter referred to as “withdrawal of research project selection”).

- 1) In the case that simultaneous proposals have been submitted for multiple competitive research funds and duplicate approval granted for essentially the same research project (including cases in which there is a considerable degree of research content duplication; hereinafter the same shall apply).
- 2) In the case that a duplicate application is made for funding of a research project that is essentially the same as another research project that has already been selected and has already received competitive research funding.
- 3) In the case that there is overlap in the intended application of research funding between multiple research projects.
- 4) Other cases equivalent to the above

Although at the application stage for this program there are no limitations regarding the submission of proposals to other competitive funding programs, etc., in the case that a research project is selected by another competitive funding program, please report this promptly to the JST at the contact address given at the end of this document. If reporting is omitted, the approval decision for the research project may be revoked.

○ Measures against “Excessive Concentration”

Even if the content of the research proposed for this program differs from the content of research being carried out under another competitive funding program, in the case that the overall research funding allocated to the same researcher or research group (hereinafter referred to as “researchers”) in the relevant fiscal year exceeds an amount that can be utilized effectively and efficiently and cannot be used within the research period, and any of the following applies, selection of the research project under this program may be withdrawn.

- 1) In the case that an excessive amount of research funding is being received in light of the capabilities of the researchers and the research methods being used, etc.
- 2) In the case that an excessive amount of research funding is being received in comparison with the amount of effort (percentage of the researchers' overall working time¹ that is required for carrying out the said research project) being allocated to the research project.
- 3) In the case that highly expensive research equipment is purchased unnecessarily.
- 4) Other cases equivalent to the above

For this reason, in the case that you submit proposals to other competitive funding programs, after submitting your application for this program, and the research project is selected by another competitive funding program, or if any information provided on your application changes, please report this promptly to the JST at the contact address given at the end of this document. If reporting is omitted, the approval decision for the research project may be

¹ This is based on the Council for Science, Technology and Innovation's definition of ‘effort’, which is “the percentage of working hours required for conducting the relevant research when the researcher's total annual working hours are 100%”. Note that “total working hours” does not refer only to the number of hours spent in research activities but to the substantive total working hours, including educational and medical activities.

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revoked.

- Information on proposal contents provided to eliminate unreasonable duplications and excessive concentration

In order to eliminate unreasonable duplication and excessive concentration, to the extent necessary information regarding some proposals (or selected projects/programs) may in some cases be provided through the Cross-ministerial R&D Management System (e-Rad) to other departments in charge of competitive funds, including other government ministries. Furthermore, when it is required that checks be made for duplicate project applications under other funding programs, information may be provided in a like manner.

- In the case that the researcher is receiving Grants-in-Aid for Scientific Research or other competitive research funding operated by the national government or independent administrative agencies (including national research and development agencies), or other research grants (including funding for which applications have been submitted), please provide information about this funding on the research proposal in accordance with the prescribed format (CREST: Form 10; PRESTO: Form 5; ACT-I: Form 5).

Based on information regarding the content of the research proposal and effort (research time allocation rate), in the case that either unreasonable duplication or excessive concentration of competitive funding has occurred, the research proposal may not be selected or selection may be withdrawn, or research funding may be reduced. Furthermore, the research proposal may also not be selected or selection may be withdrawn, or research funding may also be reduced in the case that the information provided on the research proposal is found to be false.

- In order to eliminate the unreasonable duplication or excessive concentration of competitive funding mentioned above, in the case that a researcher is receiving other competitive funding operated by the national government or independent administrative agencies (including national research and development agencies), or other research grants, or in the case that a researcher has been selected for such funding, the researcher may not submit proposals for this program for research with the same project name or content.

- In the case that the applicant is scheduled to receive 100 million yen or more in research funding under other systems or research grants, etc. in FY2017 or 2018, in view of the purpose of eliminating unreasonable duplication and excessive concentration, as a general rule final selection of the research project and budget amounts are decided in an integrated manner. In the case that the applicant is scheduled to receive a total of 100 million yen or more from multiple funding systems/grants, he/she is given individual consideration accordingly within the selection process.

Although not relevant for research projects at the application stage, the research proposal may be removed from the selection process for this program or the selection decision withdrawn depending on the outcome of selection for other competitive funding or research grants. Furthermore, when it is discovered, during the selection process for this program, that the research project has been approved/rejected for another competitive funding system, please report this promptly to the JST at the contact address given at the end of this document (rp-info@jst.go.jp).

8.4 Measures against Inappropriate Usage of Research Funds

Inappropriate use and reception (referred to as “inappropriate use and the like” hereafter) of research expenses related to implemented issues are strictly treated as described below.

- Measures to be taken in case inappropriate use and the like of research expenses are found

(i) Measures to cancel contracts

Contract research agreement is cancelled or altered concerning issues in which inappropriate use and the like are found and a request is made for refunding all or part of trusted expenses. Contract for the following year and thereafter may not be concluded.

(ii) Measures to restrict application and participation^{*2}

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Restriction measures set out in the table below depending on the levels of inappropriate use and the like are taken against application and participation by researchers^{*3} (including researchers who conspired, referred to as (“researchers who conspired inappropriate use and the like”)) who exercised inappropriate use and the like of research expenses of this project or those whose involvement in inappropriate use and the like is not proven but who violated the duty of good care.

Furthermore, the outlines of pertinent inappropriate use and the like (names of researchers who exercised inappropriate use and the like, project names, affiliations, research issues, amounts of budget, fiscal year of research, contents of inappropriate use and the like, contents of measures taken) are provided to persons of other prefectures and their independent corporations in charge of competitive funds, who may restrict application and participation in other systems for competitive fund of the prefectures. “Application and participation” means proposal, subscription, and application of a new issue; participation in research as a new joint researcher; and participation in an ongoing research issue as a joint researcher.

^{*2} “Application and participation” means proposal, subscription, and application of a new issue; participation in research as a new joint researcher; and participation in an ongoing research issue as a joint researcher.

^{*3} “researchers who violate the duty of good care” means those whose involvement in inappropriate use and the like is not proven but who violated the duty of good care a good manager should exercise.

Details of Research Funding Usage	Period of Limitation on Application (starting from the next fiscal year in which the misconduct in research activities is deemed to have occurred ²)
1. Cases in which the extent of the inappropriate use of research funds, etc. is deemed to have had minimal effect on society and the maliciousness of the action is deemed to be low.	1 year
2. Cases in which the extent of the inappropriate use of research funds, etc. is deemed to have had a large effect on society and the maliciousness of the action is deemed to be high.	5 years
3. Cases apart from 1 and 2 in which the impact of the action on society and its maliciousness are taken into consideration.	2-4 years
4. Cases in which the research funds were used to attain personal economic gain, regardless of 1 to 3.	10 years
5. Cases in which dishonest means, such as deceit, were used to have the research project in question selected for the program.	5 years
6. Although not directly involved in the inappropriate use of research funds, cases in which the use of research funds is deemed to have violated the due care of a prudent manager.	1-2 years

(iii) About public announcement of a case of inappropriate use and the like

Regarding those researchers whose application to or participation in this program, among those who make inappropriate usage of the program’s research funds or those who are in breach of their duty for diligence, information regarding the outline of the misconduct etc. (name of researcher, name of program, name of affiliated institution, fiscal year of research, details of the misconduct and details of measures taken) will be disclosed in principle by JST. Moreover, details of the misconduct (the title of the case, type of misconduct, the research area of the misconduct case, the name of the funding in regard to which misconduct occurred, the outline of the

² Limitations shall also be placed on participation for the fiscal year in which the misconduct in research activities is deemed to have occurred

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misconduct case, the measures taken by the research institution, the measures taken by the funding organization, etc.) will be disclosed in principle by MEXT.

Furthermore, according to the “Guidelines of Management and Audit of Public Research Funds in Research Institutes (Implementation standards)”, once misconduct is determined as the outcome of an investigation, it will be the responsibility of the research institution to announce the results of the investigation; hence, we ask each institution to deal with the matter appropriately.

http://www.mext.go.jp/a_menu/kansa/houkoku/1364929.htm

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8.5 Measures taken for researchers whose application and participation are restricted in another competitive fund system

Researchers on whom restriction is imposed for the reason of inappropriate use and the like of research expenses in another competitive fund system^{*8} under the central government or independent corporations are subject to restricted application to and participation in this project while their qualifications are restricted for application in the competitive fund system.

^{*8} See the table of competitive fund systems in the URL below for other specific systems.

It includes systems that finished in 2016 fiscal and those that publicly invite proposals in 2017 fiscal. Note that some the systems described above may be altered.

“Other competitive fund systems” include those systems that publicly begin inviting proposals newly in 2017 fiscal and those that finished before 2016 fiscal.

8.6 Regarding implementation of systems based on the “Guidelines of Management and Audit of Public Research Funds in Research Institutes (Implementation standards)”

○ Regarding implementation of systems for managing and auditing public research funds

In implementing the program research institutions must stringently observe the “Guidelines on Management and Audit of the Public Research Expenses in Research Institutions (Implementation standards)” (decided by the Minister of Education, Culture, Sports, Science and Technology on February 15, 2007; revised February 18, 2014)³. There is a need for the research institutions to take responsibility, having implemented a system for managing and auditing public research funds, to make every effort to properly spend the contract research fund in line with the aforementioned guidelines. If the Ministry of Education, Culture, Sports, Science and Technology recognize the system of a research institution for managing and auditing as insufficient based on the investigation according to the guideline, there is a possibility that measures such as reduction of overhead costs of competitive funding could be taken on the said institution.

○ Regarding the "Self-evaluation Checklist for Implementation of Proper Systems" In concluding the contract for this project, research organizations^{*10} need to prepare a management and auditing system for research expenses based on the captioned guidelines and to submit “Self-evaluation check list for system preparation” (“check list”, hereafter), which is a report on situation and so on (research undertaking is not approved unless the check list is submitted).

It is necessary for a research organization to use the research and development management system (e-Rad) common to ministries in order to submit the check list in the form given on the website below to the Competitive Fund Coordination Office, Promotion Planning Section, Promotion Bureau, Ministry of Education, Culture, Sport, Science and Technology by the date of concluding the contract research agreement. However, submission of a new checklist is not necessary if it has been submitted on another occasion after April 2016.

^{*10} In case of “CREST,” the research organizations include not only those whose research representative is affiliated with but also those of major joint researchers to whom research expenses are distributed.

See the website of Ministry of Education, Culture, Sports, Science and Technology below for details of a method for checklist submission.

³ Please refer to the following URL for the details of the “Guidelines on Management and Audit of the Public Research Expenses in Research Institutions (Implementation standards)”.

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http://www.mext.go.jp/a_menu/kansa/houkoku/1301688.htm

*Note: a perfect environment for using e-Rad is necessary for check list submission. Organizations that have not been registered in e-Rad should make the registration soon. (Note it usually takes about two weeks. See the website below in addition to the website given above for detailed procedure for using e-Rad).

<http://www.e-rad.go.jp/shozoku/system/index.html>

Because the captioned guidelines contain viewpoints of “promotion of issuing and sharing information,” describe the checklist on the websites of research organizations to actively issue information.

○ About duty to complete education for research ethics and compliance

Researchers who participate in research issues of this project shall receive lectures on research ethics education for the prevention of misconduct in research activities required in “Guidelines for responding to misconducts in research activities” and on compliance education required in “Guidelines for management and audit of public research expenses in research organizations”.

During the process of concluding a contract research agreement after the adoption of proposed research issues, it is necessary for all researchers participating in research issues of this project including research representative and individual researchers to receive lectures on research ethics education and compliance education and submit a document to confirm that they understood the contents of the lectures.

8.7 Regarding implementation of systems based on the “Guidelines for Responding to Misconduct in Research Activities”

In applying to this funding program and conducting research activities, research institutions are required to adherence to the ““Guidelines for Responding to Misconduct in Research Activities”(decided by the Minister of Education, Culture, Sports, Science and Technology on August 26, 2014, hereinafter referred to as the “guideline”).

In case the Ministry of Education, Culture, Sports, Science and Technology finds defects in the situation of system preparation by organizations as a result of survey on the situations based on the guidelines, the Ministry may take measures including reduction of indirect expenses of the whole competitive fund for the pertinent organization.

8.8 About submission of a checklist related to the situation of approaches based on “Guidelines related to responding to misconducts in research activities”

When concluding the contract for this project, research organizations^{*12} need to submit “a check list related to the situation of approaches based on “Guidelines for responding to misconduct in research activities”” (referred to as a “check list of inappropriate research conduct, hereafter”). (Research undertaking is not approved unless a checklist of inappropriate research conduct is submitted).

Therefore, it is necessary for a research organization to use the research and development management system (e-Rad) common to ministries in order to submit the check list in the form given on the website given below to the Office of Equitable Research Promotion, Human Resources Section, Academic Policy Bureau, Ministry of Education, Culture, Sport, Science and Technology by the date of concluding the contract research agreement. However, there is no need to submit a check list of inappropriate research conduct, if it is already submitted on a different occasion after April 2017.

See the website of Ministry of Education, Culture, Sport, Science and Technology for details of the method for submitting a checklist of inappropriate research conduct.

http://www.mext.go.jp/a_menu/jinzai/fusei/1374697.htm

*note: A perfect environment for using e-Rad is necessary for the submission of a checklist for inappropriate research conduct. See the website given below for details of the procedure related the use of e-Rad:

<http://www.e-rad.go.jp/shozoku/system/index.html>

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8.9 Measures taken for misconducts in research activities based on “Guidelines for responding to misconducts in research activities”

Misconducts in research activities in this project are treated strictly as described below.

(i) Measures to cancel contract

^{*12} In CREST, research organizations include not only that the research representative is affiliated with but also those of major joint researchers to whom research expenses are distributed.

In case this project finds specific misconducts (fabrication, fraudulent alteration, theft,) in research issues, it cancels or alters the contract research agreement and requests refunding all or part of trusted expenses. Furthermore, there may be no contract in the following years.

(ii) measures to restrict qualification for application and participation

Measures given in the table below depending on the level of inappropriateness and responsibility of specific misconduct to restrict application to and participation in this project are imposed upon researchers involved in certain misconduct in research papers or reports of this project and those whose involvement has not been established but who are found responsible to an extent for the violation of the duty of good care as a manager of pertinent papers and reports. Furthermore, in case such restriction measures are taken on qualification for application and participation, information is provided to pertinent sections of competitive fund systems (referred to as “competitive fund system related to Ministry of Education, Culture, Sport, Science and Technology” hereafter) distributed by Ministry of Education, Culture, Sport, Science and Technology and independent corporations of the ministry and to pertinent sections of competitive fund systems (referred to as “competitive fund systems related to other ministries” hereafter) distributed by other ministries and their independent corporations, which may similarly restrict qualification for application and participation in competitive fund systems related to Ministry of Education, Culture, Sport, Science and Technology and to other ministries.

Persons incurring limitations on applications due to Specific misconduct		Extent of Specific misconduct	Period of limitation on applications (Imposed from the fiscal year following the year in which misconduct is officially recognized ⁴)
Person Involved in the Specific misconduct	1. Especially malicious individual who intentionally engages in Specific misconduct from the outset of the research		10 years
	2. Author of academic paper, etc. related to research in which there	The author responsible for the academic paper in question (supervisor, first author, or other position of responsibility deemed	The impact on the advancement of research in the relevant field or society is large, and the maliciousness of the misconduct is deemed to be
	which there		5-7 years

⁴ Limitations on participation will also be imposed in the fiscal year that the 特定不正行為 is officially recognized.

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	has been Specific misconduct	equivalent)	high.	
			The impact on the advancement of research in the relevant field or society is small, and the maliciousness of the misconduct is deemed to be low.	3-5 years
		Author other than that listed above		2-3 years
	3. An individual involved in misconduct other than that stipulated in 1 or 2			2-3 years

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An author responsible for academic papers, etc. related to research in which there has been Specific misconduct but who was not involved in the Specific misconduct (supervisor, first author, or other position of responsibility deemed equivalent)	The impact on the advancement of research in the relevant field or society is large, and the maliciousness of the misconduct is deemed to be high.	2-3 years
	The impact on the advancement of research in the relevant field or society is small, and the maliciousness of the misconduct is deemed to be low.	1-2 years

(iii) measures taken to researchers whose qualification is restricted for application to and participation in competitive fund system and base expenses

Qualification is restricted for application to and participation in this project by researchers whose qualifications are restricted for application to and participation in competitive fund systems related to Ministry of Education, Culture, Sports, Science and Technology; management grant to national university corporations, university joint use organization corporations and independent corporations under the ministry; base expenses including private school subsidies; or competitive fund systems related to other ministries during the period while the restriction is in effect.

(iv) Public announcement of misconducts

In principle, JST makes a public announcement with regard to the outline of a pertinent misconduct in research activities of this project (name of researcher, project name, affiliation, research year, contents of misconduct, and measures taken). Ministry of Education, Culture, Sports, Science and Technology also makes a public announcement concerning the contents of the pertinent misconduct (name of misconduct, kind of misconduct, research field of misconduct, name of expense account of misconduct, outline of misconduct, measures taken by research organization, measures taken by fund distributor, and so on).

The captioned guidelines state that a research organization announces the survey result immediately. Each organization is requested to handle the case accordingly.

http://www.mext.go.jp/a_menu/jinzai/fusei/1360483.htm

8.10 Measures for Protecting Civil Rights and Complying with Laws and Regulations

In the case that, in implementing a research initiative, the initiative involves research requiring the consent/cooperation of other parties, research requiring particular care in handling personal information, research requiring bioethical or safety measures to be taken, and other research requiring procedures required by laws and regulations, be sure to carry out the necessary procedures, such as obtaining the approval of an external and internal ethics committee of a research institution. If research activities are conducted overseas or collaborative research activities with institutions overseas are conducted, please confirm the regulations and laws in advance adhere to them.

With regard to life science-related research in particular, the main laws and regulations prescribed by each government ministry are as follows. Please note that, depending on the research content, there are also cases in which laws and regulations other than these have been established.

- Act on Regulation of Human Cloning Techniques (Act No. 146 of 2000)
- Guidelines for Handling of a Specified Embryo (Public Notice of Ministry of Education, Culture, Sports, Science and Technology No. 173 of 2001)

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- Guidelines on the Derivation and Distribution of Human Embryonic Stem Cells (Public Notice of Ministry of Education, Culture, Sports, Science and Technology No. 156 of 2009)
- Guidelines on the Utilization of Human Embryonic Stem Cells (Public Notice of Ministry of Education, Culture, Sports, Science and Technology No. 157 of 2009)
- Ethical Guidelines for Human Genome/Gene Analysis Research (Public Notice of Ministry of Education, Culture, Sports, Science and Technology/ Ministry of Health, Labour and Welfare/ Ministry of Economy, Trade and Industry No. 1 of 2001)
- Ministerial Ordinance on Good Clinical Practice for Drugs (Ordinance of Ministry of Health, Labour and Welfare No. 28 of 2009)
- R&D Using Human Tissue Extracted during Operations, Etc. (Report of the Health Science Council 1998)
- Ethical Guidelines for Epidemiological Research (Public Notice of Ministry of Education, Culture, Sports, Science and Technology/ Ministry of Health, Labour and Welfare No. 2 of 2002)
- Guidelines for Gene Therapy Clinical Research (Public Notice of Ministry of Education, Culture, Sports, Science and Technology/ Ministry of Health, Labour and Welfare No. 1 of 2002)
- Ethical Guidelines for Clinical Studies (Public Notice of Ministry of Health, Labour and Welfare No. 225 of 2003)
- Act on the Conservation and Sustainable Use of Biological Diversity through Regulations on the Use of Living Modified Organisms (Act No. 97 of 2003)
- Ethical Guidelines for Medical and Health Research Involving Human Subjects (Public Notice of the Ministry of Education, Culture, Sports, Science and Technology and the Ministry of Health, Labor and Welfare No. 3 of 2014)
- Laws and regulations on access or distribution of hereditary resources in each country

For information regarding Ministry of Education, Culture, Sports, Science and Technology measures on bioethics and safety assurance, please refer to the following website.

- Life Sciences no Hiroba “Measures on Bioethics and Safety Assurance” (only in Japanese)
<http://www.lifescience.mext.go.jp/bioethics/index.html>

In the case that the research plan includes research or surveys that require consent/cooperation of other parties and/or social consensus, be sure to take appropriate measures for protecting civil rights and interests prior to applying to this program.

8.11 Security Export Control (Measures against the Leakage of Technology Internationally)

- Many cutting-edge technologies are studied at research institutions. Universities in particular have seen an increase in the number of international students and foreign researchers due to internationalization, and there is an increasing risk of cutting-edge technologies and/or research materials/equipment being leaked or used for bad purposes such as the development and production of weapons of mass destruction. For this reason, in carrying out their various research activities, including the relevant contract research, research institutions are required to take organizational measures to ensure that research results that could be used for military purposes do not fall into the hands of people who could carry out fearful activities such as developers of weapons of mass destruction or terrorist groups.
- In Japan there are export controls* based on the Foreign Exchange and Foreign Trade Act (Act No. 228 of 1949) (hereinafter referred to as the “Foreign Exchange Act”). Accordingly, when attempting to export (provide) goods or technologies controlled by the Foreign Exchange Act, as a general rule it is necessary to obtain the license of the Minister of Economy, Trade and Industry. Be sure to comply with the Foreign Exchange Act and other laws, ministerial ordinances, and notices issued by government ministries and agencies.

*Currently, Japan’s security export control system mainly comprises two systems based on international consensus: (1) systems under which the license of the Minister of Economy, Trade and Industry is required as a general rule when attempting to export (provide) goods (technologies) with specifications/functions that are above certain criteria, such as carbon fibers or numerically-controlled machine tools (list control); and (2) systems under which the license of the Minister of Economy, Trade and Industry is required when attempting to export (provide) goods (technologies) to which list controls do not apply and certain requirements (use application requirements, end-user requirements, and notification (inform) requirements) have been met (catch-all control).

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- Not only the export of goods but also the provision of technology is subject to Foreign Exchange Act controls. When providing list control technologies to foreigners (non-residents), license to provide the information must be obtained in advance. “Technology provision” includes the provision of technology information such as blueprints, specifications, manuals, specimens, and prototypes by means of storage media such as paper, e-mail, CD, and USB memory, and also includes the provision of operational knowledge through technical guidance and skills training as well as technological support through seminars. There are also cases in which technology provision includes a large amount of technology exchange that could be subject to Foreign Exchange Act controls in the acceptance of international students and joint research activities.
- Detailed information about security export control is provided on the website of the Japanese Ministry of Economy, Trade and Industry (METI) and other organizations. Please see the list below for details.
 - Ministry of Economy, Trade and Industry (METI): Security export control (general)
<http://www.meti.go.jp/policy/anpo/englishpage.html>
 - Ministry of Economy, Trade and Industry (METI): Security Export Handbook
<http://www.meti.go.jp/policy/anpo/seminer/shiryō/handbook.pdf>
 - Center for Information on Security Trade Control
<http://www.cistec.or.jp/english/index.html>
 - Guidance on machine technology control in relation to security export control (for universities/research institutions)
http://www.meti.go.jp/policy/anpo/law_document/tutatu/t07sonota/t07sonota_jishukanri03.pdf

8.12 Cooperation with the National Bioscience Database Center

The National Bioscience Database Center (NBDC)⁵ hosts the Life Science Database Archive (<http://dbarchive.biosciencedbc.jp>), an archive that provides access to wholly downloadable datasets generated by researchers in Japan in the life sciences. Another hosted database is the NBDC Human Database (<http://humandbs.biosciencedbc.jp>), a platform for sharing various human data produced from human-derived specimens such as human genome data.

We ask all researchers to provide NBDC with their data for publishing on the Life Science Database Archive and the NBDC Human Database so that data results from your life sciences research may be used extensively for a long time.

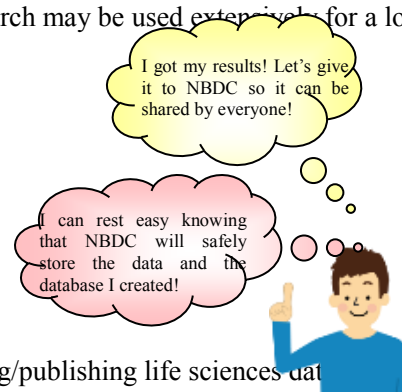
Contact information

Japan Science and Technology Agency

The National Bioscience Database Center (NBDC)

Life Science Database Archive contact: dbarchive@biosciencedbc.jp

Human Database contact: humandbs@biosciencedbc.jp



Feel free to contact us with any questions you may have on using/publishing life sciences data

8.13 Regarding Registration with researchmap

Strategic creative research promotion project (CREST, PRESTO, ACT-I) plans to use the researcher information database (researchmap*) managed by JST as a master database in order to utilize it in various scenes including achievement reports and the like. In addition, the community function of researchmap is used for utilization in project management, including distribution of various files and event notices. Because registration in researchmap

⁵ The National Bioscience Database Center (<http://biosciencedbc.jp/en/>) researches, develops, and provides services for integrating and easily accessing life sciences databases generated in Japan. The objective is to stimulate research and development through extensive sharing and broad use of research data.

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of researchers whose proposals are adopted is necessary for the purposes, those who have not are requested to make the registration soon.

Information registered in researchmap is effectively utilized for surveying national plans of academic, scientific, and technological policies and statistical purposes. Register and update achievement information and the like in researchmap.

(※) Researchmap (previously referred to as Read&Researchmap <http://researchmap.jp/>) is a largest database covering all Japanese researchers. As of January 2017, about 256 thousand researchers are registered in it. Registered profile information and achievement information are continually and stably managed as a service by a public organization in order to make them available to the public via Internet. Furthermore, researchmap collaborates with e-Rad and many databases of university instructors to render registered information available through other systems. Therefore, researchers do not need to register the same achievement repeatedly in various application forms and databases. That allows tasks associated with research activities to be performed efficiently.

See (1) below to confirm the state of registration in researchmap and the log-in procedure; see (2) below for the procedure of new registration of non-registered researchers; see (3) below for re-issuing procedure for passwords to register researchers; and see (4) below for the procedure of achievement data output in case a researcher prepares a list of achievements at proposal application using achievement information registered in researchmap.

(1) Methods for confirming state of registration in researchmap and for log in

(1)-1. Check whether registration already exists.

Even if a researcher him/herself has not registered, a research organization may have registered the affiliated researcher in researchmap. Names and so on may be searched for by researcher search.

Top page: <http://researchmap.jp/search/>

Use the search results to check whether information on a researcher him/herself exists. See (2) below to make new registration in case of no registration.

researchmap

日本語 | English | Sign up | Login

Home | Researcher Search | Community Search

Researcher Search

Select items to narrow your search results

Area

- Hokkaido
- Tohoku
- Kanto
- Chubu
- Kinki
- Chugoku
- Shikoku
- Kyushu
- etc

Institutions

- National Institutes
- Independent
- Administrative Agencies
- Inter-University Research
- Institute Corporations

Name:

Affiliation:

Research keyword:

Research area: Main category: Sub-category:

Last modified in:

Search Clear

Search Results

0 items found

Kagaku Taro

University of JST
Faculty of xxx, Department of xxx
Professor

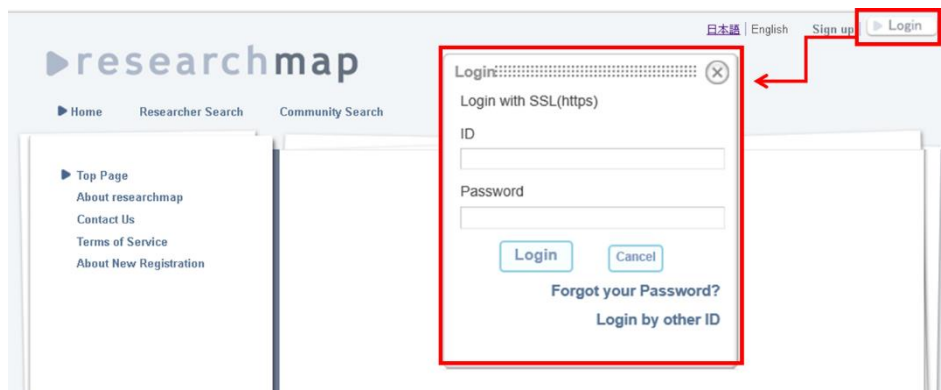
Name

Affiliation

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(1)-2. In case registration exists and log-in ID and password are known


Log-in ID and password are used to log in for researcher information in researchmap.



(2) Method for new registration

(2)-1. In case a researcher has a researcher number

Click “new registration” upper right on the researchmap top page, input the researcher number and other relevant matters to complete new registration.



(2)-2. In case a researcher has no researcher number

Click “about new registration” link top left on the researchmap top page to use “New registration form for a researcher who has not researcher number for scientific research expense.” Add titles of main papers (or books) and proceedings (or publishers’ names) for checking that the applicant is indeed a researcher. An invitation mail is sent upon confirmation by JST service center.

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The screenshot shows the researchmap website interface. On the left, a sidebar contains links: Home, Researcher Search, Top Page, About researchmap, Contact Us, Terms of Service, About New Registration (highlighted with a red box), and Featured Researchers. Below these is a search bar with the text '検索' and a W3C CSS logo. The main content area is titled 'Pattern -2- New registration form'. It includes instructions: 'Fill out the form on this page, and click the OK button. The items marked by * are required to answer.' The form fields are: Name* (text input), e-mail address* (text input), a confirmation field (text input) with the note 'Please put down your email other than the one for your mobile phone.', Professional affiliation* (text input) with the note 'Please write down the official name. If you are a graduate student indicate the year and your research department. Please also specify any other information such as you are part-time, etc.', Official title* (dropdown menu with 'University teaching staff' selected), and Research papers or books* (text input) with the note 'In order to ensure that you are the researcher, please always write down the titles of your main research papers (or book) and the name of the journal or bulletin (or publisher)'. A red box highlights the 'Pattern -2- New registration form' title and the 'About New Registration' link in the sidebar.

(2)-3. Invitation by researchers who have registered

An invitation by a researcher who has registered in researchmap allows new registration regardless of whether a researcher number exists. A researcher who has registered may use an “invite” link after logging in researchmap to send an invitation mail to a researcher who has not registered.

The screenshot shows the researchmap website interface. The top navigation bar includes links: Home, Researcher Search, Community Search, My Portal, Invite (highlighted with a red box), and Message. The main content area is titled 'Researcher invitation'. It includes the question 'Would you like to invite members of your research group, research collaborators to researchmap?' and the instruction 'After entering necessary entries, you can send invitation emails using your name.' Below this is a light blue box containing the question 'Who has been invited to join is a researcher? Or, is he/she a research support clerk or a master's course or undergraduate student?' and two radio buttons: 'Researcher' (selected) and 'Research support clerk, Master's course or undergraduate student'. A note states: 'Research support clerk and master's course or undergraduate student are available to have curriculum vitae(CV), but it's closed to researchmap non-members.' Below the radio buttons are two text input fields: 'name of researcher to be invited*' and 'email address*'. A red box highlights the 'Researcher invitation' title, the radio buttons, and the input fields. A link 'add researcher to be invited' is visible at the bottom right of the form area.

(3) Procedure for re-issuing a password

(3)-1. In case a registered log-in ID or password is forgotten

The procedure below allows a log-in ID or password to be re-issued.

① Click “log in” upper right on the researchmap top page and click “password re-issue.”

② A screen for inputting a registered mail address appears. Input your mail address and send the mail. A log-in ID and a password are sent to you in due course of time.

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The screenshot shows the researchmap website interface. At the top right, there are links for 日本語 | English, Sign up, and a Login button. A red box highlights the Login button. Below the navigation bar, there are links for Home, Researcher Search, and Community Search. On the left sidebar, there are links for Top Page, About researchmap, Contact Us, Terms of Service, and About New Registration. A red box highlights the Contact Us link. In the center, there is a login form titled "Login with SSL(https)". It has fields for ID and Password, and buttons for Login and Cancel. A red box highlights the ID field, labeled with a circled "1". Below the login form, there is a link for "Forgot your Password?". A red box highlights this link. Below the forgot password link, there is a form for password recovery. It says "Please enter your registered e-mail address, and click on the button. We will send the activation key to obtain a new password to your registered e-mail address." and has a field for e-mail address and a Send button. A red box highlights this entire section, labeled with a circled "2".

(3)-2. In case of an error in password re-issue

When an error occurs in the procedure of password re-issue for researchmap, use the question form to contact the researchmap top page. <https://researchmap.jp/public/inquiry/>

The screenshot shows the researchmap website interface. At the top right, there are links for 日本語 | English, Sign up, and a Login button. Below the navigation bar, there are links for Home, Researcher Search, and Community Search. On the left sidebar, there are links for Top Page, About researchmap, Contact Us, Terms of Service, and About New Registration. A red box highlights the Contact Us link. In the center, there is a contact form titled "Contact Form". It says "Fill out the form on this page, and click the OK button. The items marked by * are required to answer." and has fields for Name (full name)*, e-mail address*, Professional affiliation, and Type of query*. A red box highlights the e-mail address field, labeled with a circled "1". Below the contact form, there is a dropdown menu for "Request regarding ID or PASSWORD". A red box highlights this dropdown menu. Below the dropdown menu, there is a note: "Please fill out any questions in the 'Content' section. However we may not always be able to your queries individually, we appreciate your understanding."

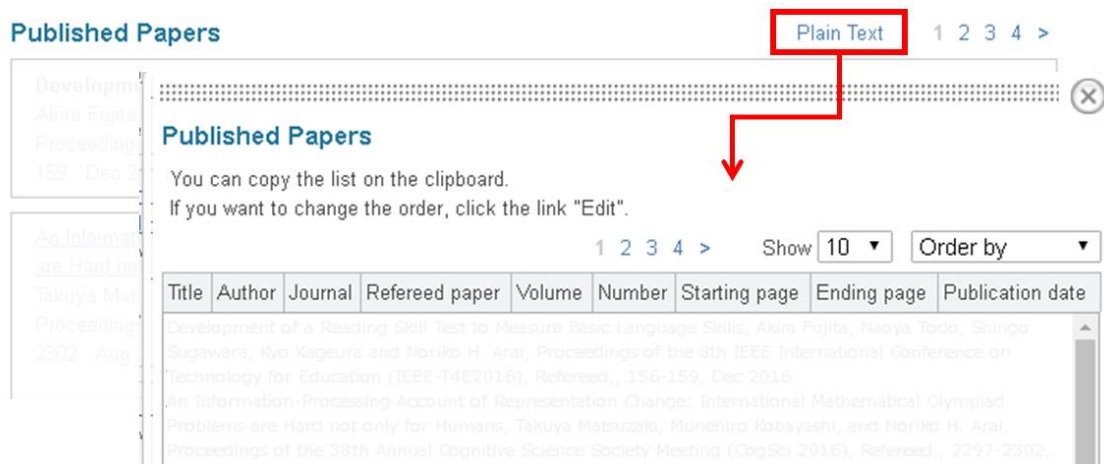
(4)Output procedure for achievement information registered in researchmap

Information registered in researchmap may be downloaded in (4-1) text style, (4-2) csv or an XML file.

(4)-1. Presentation in a text file

Achievement information may be presented in a text file from your own page. When you save data in your own PC, copy and paste the text data on the screen to use the data.

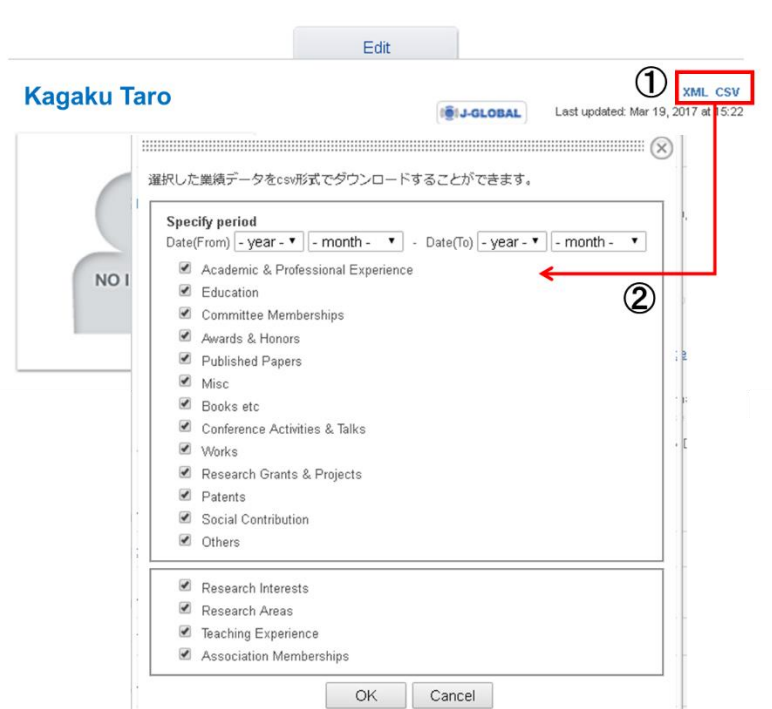
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(4)-2. Downloading in csv or XML file

Logging in researchmap allows file output by the kind of achievement to be saved in your own PC.

- ① choose SML or csv
- ② Input a check mark for achievement wanted to be output and click “decision.”



8.14 About the use of JREC-IN Portal

The database of research human resources (JREC-IN <https://urecinjst.go.jp/>) is a largest website to support research human resources in Japan. It is a free service to carry information on human resources including researchers, their supporter, engineers involved in research for glancing.

At present, it annually carries more 16,000 pieces of information on wanted human resources by universities, public research organizations, and private business firms in addition to more than 100 thousand registered users. Utilize JREC-IN Portal by all means when looking for research human resources (post doctors, researchers, and so on) with high levels of knowledge to promote research projects.

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Furthermore, JREC-IN Portal collaborates with researchmap. It may be logged in by ID or password of researchmap. Its functions for the preparation of résumés and achievement lists may use information registered in researchmap to prepare these documents.

8.15 Efficient promotion of research and development through effective use of currently available research facilities and equipment

The Ministry of Education, Culture, Sports, Science and Technology is promoting the development of the grounds for sharing research institutes and facilities and integrating different research fields in accordance with the Act on the Promotion of Public Utilization of the Specific Advanced Large Research Facilities (Act No. 78, 1994); the Act on Enhancement of Research and Development Capacity and Efficient Promotion, etc., of Research and Development, etc., by Advancement of Research and Development System Reform (Act No. 63, 2008); and other laws. If the uses and purchases of research facilities and equipment are being considered upon the application, please consider actively using facilities and equipment owned by universities and national research and development agencies and made available to others and opportunities for cooperation among industries, academia, and the government from the perspective of effective promotion of consigned research in this program; effective use of already available facilities and equipment; and removing overlaps in purchasing facilities and equipment.

In addition, universities etc. are requested to actively promote sharing research facilities in research projects funded by competitive research funds. Please refer to 5.2.10(3) in the application guidelines for details.

<Reference: Examples of shared facilities and equipment>

Facilities covered in the Act on the Promotion of Public Utilization of the Specific Advanced Large Research Facilities (Please refer to the instructions from each facility for schedule of project proposal and other information related to utilization) Spring-8, the large synchrotron radiation facility (Applications are accepted around May and November every year.) http://user.spring8.or.jp/?lang=en SACLA, an X-ray free-electron laser facility (Applications are accepted around May and November every year.) http://sacra.xfel.jp/?lang=en J-PARC, a large intensity proton accelerator (Applications are accepted around May and October every year.) http://is.j-parc.jp/uo/index_e.html High Performance Computing Infrastructure (HPCI) including the K computer http://www.hpci-office.jp/folders/english
Projects for promoting the sharing of advanced research facilities *See URL below for information on this project, which started in 2016 fiscal. Also see URL below for information concerning “Platform formation project for joint use of advanced research base,” which finished in 2015 fiscal. http://www.mext.go.jp/a_menu/kagaku/shisetsu/index.htm
Nano technology platform http://nanonet.mext.go.jp/english/
Development of research base network toward the construction of a low-carbon society http://www.nims.go.jp/lcnet/
Tsukuba Innovation Arena for Nanotechnology (TIA-nano) https://www.tia-nano.jp/en/index.html
Project for Platform for Drug Discovery, Informatics, and Structural Life Science (four bases) http://pford.jp/
National BioResource Project http://www.nbrp.jp/
Japanese Experiment Module (KIBO) / International Space Station (ISS) http://iss.jaxa.jp/kiboexp/participation/

8.16 Regarding the Results of JST’s Development of Systems and Technology for Advanced Measurement and Analysis Program

Chapter 8 Key Points in Submitting Proposals

○JST implements a wide variety of research and development programs ranging from basic research to industry-academia collaborations and so on, and a great deal of these research results have been put into practical use already.

○Among these, the development of systems and technology for advanced measurement and analysis program, which seeks to build and develop a basic research and development platform, has resulted in the practical use of many research and development tools.

○It would be a pleasure if a researcher sees a research and development tool to be newly examined for the promotion of research and development.

Visit the Advanced Measurement website (<http://www.jst.go.jp/sentan/en/index.html>) for details.

研究成果展開事業
【先端計測分析技術・機器開発プログラム】

文字サイズ変更 大 中 小
サイト内検索 検索

▶ サイトマップ ▶ 交通アクセス ▶ リンク集 ▶ 新着情報 ▶ お問い合わせ ▶ ENGLISH

プログラムの概要 支援課題 開発成果DB 開発成果の活用・普及促進 公募案内 評価結果

JSTトップ > 先端計測分析技術・機器開発プログラム

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▶ 事業紹介パンフレット
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▶ 事業紹介リーフレット
PDF(1.5MB)

開発成果の活用・普及促進
▶ 実施している課題HPリンク一覧

要素技術タイプ
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開発成果の活用・普及促進

本プログラムは、最先端の研究やものづくり現場でのニーズに応えるため、将来の創造的・革新的な研究開発に資する先端計測分析技術・機器及びその周辺システムの研究開発を推進します。

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分野で検索: ☐ ライフ計測 ☐ 材料計測 ☐ 環境計測 ☐ 放射線計測
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開発成果の一覧

成果名	開発課題名	分野	製品
放射線分析用高精度標準物質	放射線環境標準物質の開発	放射線計測	
超微量液体抽出/超微量液体クロマトグラフシステム Nexera UC	微量分析用超微量液体抽出分離装置の開発	ライフ計測	
放射線分析用半導体標準物質 (フレック状、低濃度)	放射線環境標準物質の開発	放射線計測	
高分解能電質量プロブ設置機SPM-8000PH	大気中・液中で動作する原子分析能分析装置の開発	材料計測	
青色カルシウムプローブ (CaTM-2TM/CaTM-2TM AM)	次世代型蛍光プローブの創製を旨とした新規蛍光団の開発	環境計測	

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