

(Attachment)

New Research Promotion Program

Research Proposal Form

Outline of Research Theme

Name of research theme (in approx. 20 words)

Area of research you are applying for:

Name:

Name of organization and position:

Outline of research theme:

Please summarize the Research Plan (Form 3) in approximately 400 words. Provide the background to the research, the director's idea, concept, and aim of the research, as well as the outlook for the future.

Keywords for the proposal:

(Go to "Appendix 1: List of Key Words" and choose up to five key words that best describe the research theme. Enter the key word together with its number below.

If no suitable key words are available, enter your own, making sure they begin with an asterisk*.)

(Example) No.1: Gene No.2: Genome No.10: Cytogenesis and differentiation * _____

Research area:

(Go to "Appendix 2: List of Research Areas" and choose one "Main research area" and three "Sub area" key words that best describe the research theme. Enter each "Research category" together with its number below.)

(Example) Main research area No.101 Genome
Sub area No.102 Medicine and medical care No.104 Neuroscience

Research Plan

(Insert drawings where appropriate.)

(1) Please describe the background (how you come up with the research plan), the status quo of similar researches in and out of your country, and the details of an approach to the research on an item-by-item basis in approximately five pages (including drawings and tables) of A4 paper.

(2) Please describe the future prospects, possible intellectual properties, and social contribution expected in approximately a half or one page of A4 size paper.

Grants From Other Support Systems

If the researcher director (or individual researcher in the case of Individual Researcher Type or Postdoc-participant Type) or main research participants are receiving grants (or have applied for or plan to apply for), please provide the details in section below. Inclusion in the research program may be canceled if the information below is found to be untrue.

Research director (individual researcher) grant status

If you are receiving (or applying for or planning to apply for) research grants totaling 10 million yen or more per year, and you happen to be a principal member of the program, please provide information concerning the name of the research system, the name of the research theme, the amount of the research grant, the length of the research and your position (research director or principal researcher).

Special Coordination Funds for Promoting Science and Technology (SCF)

Grant-in-aids for Scientific Research

Health Sciences Research Grants

Large-scale basic research promotion systems, including those provided by special corporations such as the Japan Society for the Promotion of Science, New Energy and Industrial Technology Development Organization (NEDO), the Bio-oriented Technology Research Advancement Institution (BRAIN), the Organization for Pharmaceutical Safety and Research, the Telecommunications Advancement Organization of Japan, Broadcasting Organization, the Corporation for Advanced Transport & Technology, and the Japan Science and Technology Corporation (e.g., Research for the Future Program, Proposal-Based New Industry Creative Type Technology Research and Development Promotion Program, New Technology and New Business Field Creating Basic Research Promotion Program)

Other external funds that researchers can obtain in the competitive environment

Please also indicate any large funds as a business of the belonging organization in the belonging research institute.

Grants received by the main research participants (representatives of the institutes that will jointly conduct the research (Provide the same information as provided by the research director.)

*** If you are an applicant for Individual Researcher Type or Postdoc-participant Type, you do not have to fill in this section.**

System for Conducting the Research 1

* **If you are an applicant for Individual Researcher Type or Postdoc-participant Type, you do not have to fill in this section.**

Composition of research team and division of roles

Participants from the research institute to which the research director belongs

University Department Faculty (Research to be conducted at University)

Names of principal researchers on the research team (organizations and titles)

Name	Title	Coverage (%)
_____	Professor	_____ % (Research Director)
_____	Assistant Professor	-
_____	Assistant	-
_____	Post Doctorate	-

Research items and outline (Provide a brief outline of the research and why you feel it is necessary.)

Research items
Outline

*Please indicate the percentage of the time that will be allocated for the proposed research out of your total yearly working time (including educational and medical work etc.).

*The system for conducting the research will be discussed after the research proposal has been accepted. Consultation prior to the application is also available.

System for Conducting the Research 2

* **If you are an applicant for Individual Researcher Type or Postdoc-participant Type, you do not have to fill in this section.**

The main research participants and members participating from other research institutes, if the research will be conducted jointly with them

Laboratory at Research Institute (Research to be conducted at Research Institute)

Names of principal researchers on the research team (organizations and titles)

Name	Title	Coverage (%)
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_____	Principal researcher	____% (main research participant)
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_____	Researcher	-
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Research items and outline (Provide a brief outline of the research and why you feel it is necessary.)

Research items

Outline

(Co. Ltd.) Research Institute (Research to be conducted at Co. Ltd.)

Names of principal researchers on the research team (organizations and titles)

Name	Title	Coverage (%)
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_____	Principal researcher	____% (main research participant)
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_____	Researcher	-
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Research items and outline (Provide a brief outline of the research and why you feel it is necessary.)

Research items

Outline

* Please pay full attention to the roles to be played by the members of the research team.

* The main research participants are those who represent research institutes conducting the joint research.

List of papers and books
(Provided by research director or individual researcher)

Major documents

Please choose five to 10 of the most important documents from the research director's papers presented in academic publications, etc. or from his/her books. List them by year starting from the most recent. If there are other related documents necessary to gaining an understanding of the research proposal, please attach a list of these documents. Circle the publications that are written mainly by the applicant himself/herself.

(Please list all of the authors' names, title of the paper presented, publication in which the paper was presented, the volume, page, and year of presentation.)

Reference materials

If there are any reference materials that will be useful to gain an understanding of the research proposal, please list them below. Circle the publications that are written mainly by the applicant himself/herself.

(Please list all of the authors' names, title of the paper presented, publication in which the paper was presented, the volume, page, and year of presentation.)

**List of papers and books
(Provided by the main research participants)**

* **If you are an applicant for Individual Researcher Type or Postdoc-participant Type, you do not have to fill in this section.**

For each of the main research participants, please choose three to five important documents that are related to the research proposal from their papers presented in academic publications, etc., or from their books. List them with the year of presentation starting from the most recent.

(Please list all of the authors' names, title of the paper presented, publication in which the paper was presented, the volume, page, and year of presentation.)

Patent List
(Provided by research director or individual researcher)

Main Patents

Please choose five of the most important patents registered by the research director starting from the most recent.

(Please list the application number, inventor, title of invention, name of applicant and date of application.)

Others

- * **If you are an applicant for Individual Researcher Type or Postdoc-participant Type, you do not have to fill in this section.**

Research participation status

(Check the appropriate items below.)

Full-time

Part-time (Research coverage ____%)

Please list any other conditions affecting your status as a participant in the research.

- * Please indicate the percentage of the time that will be allocated for the proposed research out of your total yearly working time (including educational and medical work etc.).

Requested research site

(Please check the appropriate location box below.)

Present organization

Other (to be provided by JST)

- * The system for conducting the research will be discussed after the research proposal has been accepted. Consultation prior to the application is also available.

Please describe freely the reasons why you have filed an application under the Strategic Creation Research Promotion Program, as well as your requests regarding the research, present situation, or any other relevant topics.

Key Word List

No.	KeyWord
1	Genetics
2	Genome
3	Protein
4	Sugar
5	Lipid
6	Nucleicacid
7	Cellandtissue
8	Biomolecule
9	Biodynamics
10	Cytogenesisanddifferentiation
11	Brainandnervoussystem
12	Animal
13	Plant
14	Microorganism
15	Viruses
16	Praxiology
17	Evolution
18	Informationengineering
19	Proteome
20	Translationresearch
21	Transplantationandregeneration
22	Healthcareandwelfare
23	Regenerative medicine
24	Food
25	Agricultural,ForestryandFisheryProducts
26	Geneticallymodifiedfood
27	Biotechnology
28	Dementia
29	Cancer
30	Diabetes
31	Circulatoryorgansandhypertension
32	Allergiesandasthma
33	Infectiousdiseases
34	Cranialnervedisease
35	Aging
36	Drugreaction
37	Biotechnology-relatedequipment
38	ForTonicnetwork
39	Advancedtelecommunications
40	Cableaccess
41	AdvancedInternettechnologies
42	Mobilecommunications
43	Satellitenetwork

	KeyWord
44	Cryptographyandauthentication
45	Securenetworking
46	HighlyReliable network
47	Copyrightandcontentprotection
48	High-performance computing
49	Dependablecomputing
50	Algorithms
51	Modeling
52	Visualization
53	Analysisandevaluation
54	Recordingtechnology
55	Datastorage
56	Large-scalefilesystem
57	Multimodalinterface
58	Image,characterandvoicerecognition
59	MostLanguage processing
60	Automatictending
61	Virtualreality
62	Agenttechnology
63	Smart sensorinformationsystems
64	Softwareefficiencyandstabilityimprovement
65	Directoryandinformationretrieval
66	Contentarchiving
67	System-on-chiptechnology
68	Devicedesignandmanufacturingprocesses
69	High-densitypackaging
70	Advancedfunctionaldevicetechnology
71	Powersaving,highenergydensitytechnology
72	Display
73	Remotesensing
74	Monitoring(nonremotesensing)
75	Atmospherephenomena
76	Climaticchange
77	Hydrosphericphenomena
78	Geographicphenomena
79	Biological phenomena
80	Qualitative/quantitativeenvironmentalforecasts
81	Environmentalchange
82	Hazardouschemicalsubstances
83	Wastetreatment
84	Wasterecycling
85	Atmosphericpollutionpreventionandpurification
86	Waterandsoilpollutionpreventionandpurification

	KeyWord
87	Environmentalanalysis
88	Pollutionpreventionandcountermeasures
89	Ecosystemrestorationandmaintenance
90	Environmental harmonious agriculture and forestry
91	Environmentally harmonious urban infrastructureandconstruction
92	Naturalcoexistence
93	Policyresearch
94	Magneticstorage
95	Hyperfineselectronics
96	Veryhigh-speedinformationprocessing
97	Atomicandmolecularscaleprocessing
98	Scanning probe electron microscope (STM,AFM,STS,SNOM,others)
99	Quantumdot
100	Quantumwire
101	Quantumwell
102	Superlattice
103	MolecularMachine
104	Nanomachine
105	Tunnelsyndrome
106	Quantumcomputer
107	DNAComputer
108	Spinelectronics
109	Strongcorrelationelectronics
110	Nanotubeandfullerene
111	Quantumcontainment
112	Selforganizing
113	Molecularrecognition
114	Minorityelectrondevice
115	High-performancelaser
116	Superconductingmaterialandelements
117	High-efficiencyphotovoltaicmaterialandelements
118	Quantumbeam
119	Opticalswitching
120	Photoniccrystals
121	Microresonator
122	Terahertz/infraredmaterialandelements
123	Nanocontact
124	Supramolecularchemistry
125	MBEepitaxial
126	Monomolecularmeasuring(SMD)
127	Opticalfreezers
128	Molecularmotor
129	Enzymereaction

Research Area List

No.	Priorityresearchareas	Categories	No.	Priorityresearchareas	Researchcategories
101	Lifescience	Genomes	501	Energy	Fossilfuelandartificialfuel
102	Lifescience	Medicineandmedicalcare	502	Energy	Nuclearenergy
103	Lifescience	Foodscienceandtechnology	503	Energy	Naturalenergy
104	Lifescience	Neuroscience	504	Energy	Energyconservationandenergyutilization
105	Lifescience	Bioinformatics	505	Energy	Environmentalloadreduction
106	Lifescience	Environmentandecology	506	Energy	Cooperation and contribution to international society
107	Lifescience	Materialsproduction	589	Energy	Promotionofbasicandbasicscientifictechnologies
189	Lifescience	Basicbiology	599	Energy	Others
199	Lifescience	Others	601	Manufacturingtechnology	Highprecisiontechnology
201	I n f o r m a t i o n communications	Highspeednetworktechnology	602	Manufacturingtechnology	Precisionpartprocessingtechnology
202	I n f o r m a t i o n communications	Securitytechnology	603	Manufacturingtechnology	Highvalueaddedextremetechnology
203	I n f o r m a t i o n communications	Serviceandapplicationrelatedtechnology	604	Manufacturingtechnology	Technologies to minimize environmental load
204	I n f o r m a t i o n communications	Homeappliance networkingtechnology	605	Manufacturingtechnology	Quality control and manufacturing floor safety technology
205	I n f o r m a t i o n communications	Highspeedcomputingtechnology	606	Manufacturingtechnology	Advancedproductiontechnology
206	I n f o r m a t i o n communications	Simulationtechnology	607	Manufacturingtechnology	Medicalandwelfareequipment
207	I n f o r m a t i o n communications	Highspeedmassstorage	608	Manufacturingtechnology	Assemblyprocess
208	I n f o r m a t i o n communications	Inputandoutputtechnology	609	Manufacturingtechnology	Systemtechnology
209	I n f o r m a t i o n communications	Humanarbitraryandmeaningunderstandingtechnology	689	Manufacturingtechnology	Sharedbasicresearch
210	I n f o r m a t i o n communications	Sensortechnology	699	Manufacturingtechnology	Others
211	I n f o r m a t i o n communications	Humaninterfaceevaluation	701	Socialinfrastructure	Researchingmechanismsofandforecastingabnormal naturalphenomenon
212	I n f o r m a t i o n communications	Softwaretechnology	702	Socialinfrastructure	Researchingappliedtechnologyformitigatingdisasterdamage
213	I n f o r m a t i o n communications	Devicetechnology	703	Socialinfrastructure	Advanceddisasterpreventionsupportsystems
289	I n f o r m a t i o n communications	Sharedbasicresearch	704	Socialinfrastructure	Disasterpreventionotechnology
299	I n f o r m a t i o n communications	Others	705	Socialinfrastructure	Measures to deal with deterioration of social infrastructure
301	Environment	Globalenvironment	706	Socialinfrastructure	Safetymeasures forsemi-hazardous andhazardous substances
302	Environment	Regionalenvironment	721	Socialinfrastructure	Rebuilding living areas in harmony with the environment
303	Environment	Environmentalrisk	722	Socialinfrastructure	Broadly-basedregionalresearch
304	Environment	Recycling-orientedsocialsystems	723	Socialinfrastructure	Improving water cycle and implementing water management
305	Environment	Biodiversity	724	Socialinfrastructure	Devisingnewtransportationsystemsgearedtothe flowofpeopleandmaterials
389	Environment	Sharedbasicresearch	725	Socialinfrastructure	Barrier-freeaccess

399	Environment	Others	726	Socialinfrastructure	Adoptionofuniversaldesign
401	Nanotechnology,materials	Nanomaterials(electronic,magnetic,optic,application,etc.)	789	Socialinfrastructure	Sharedbasicresearch
402	Nanotechnology,materials	Nanomaterials(structuralmaterialapplication,etc.)	799	Socialinfrastructure	Others
403	Nanotechnology,materials	Nano-informationdevice	801	Frontiers	Planetaryscience(includingastronomy)
404	Nanotechnology,materials	Nano-medicalandlifescienceapplication	802	Frontiers	Spaceexploitation
405	Nanotechnology,materials	Nanobiology	821	Frontiers	Marinescience
406	Nanotechnology,materials	Energyandenvironmentalapplication	822	Frontiers	Marinedevelopment
407	Nanotechnology,materials	Surfaceandinterface	889	Frontiers	Sharedbasicresearch
408	Nanotechnology,materials	Measurementtechnologyandstandardtechnology	899	Frontiers	Others
409	Nanotechnology,materials	Processing,synthesis,andprocess	900	Humanitiesandsociology	
410	Nanotechnology,materials	Basicproperties	1000	Naturalscience	
411	Nanotechnology,materials	Calculation,theory,andsimulation			
412	Nanotechnology,materials	Materialsandtechnologiestocreatesaospace			
489	Nanotechnology,materials	Sharedbasicresearch			
499	Nanotechnology,materials	Others			

*1 ; Indicates technology that simplifies input/output with information communications systems. Note that this does not include Research Category Nos. 209 to 211.