

# "Aichi Priority Research Project V(5<sup>th</sup> Period)" Research Theme Application Guidelines

## 1 Purpose

Based on the Aichi Science, Technology and Intellectual Property Action Plan 2025 (formulated in March 2021), Aichi Prefecture (hereinafter referred to as "Prefecture") In order to solve the technical issues faced by local industries, we will call for and select research themes to be tackled in collaboration with industry, academia, and government, with "Knowledge Hub Aichi" (Toyota City, Aichi Prefecture, Japan) as the core.

The research theme is to contribute to the industrial development of the prefecture and the realization of a decarbonized society through innovation originating in the prefecture. In addition, it is expected to be involved in or influence (large-scale) investment in the market, and to contribute to the realization of the industry, technology, and society that should exist in the near future at the Japan and global levels.

【 ! 】 What we would like you to pay special attention to when making proposals

- This call for proposals is based on the assumption that the budget will be enacted at the February 2025 regular Prefectural Assembly, and the implementation status, scale, and schedule are subject to change depending on the status of the fiscal 2025 budget.
- Please convert the documents to be submitted in an electronic format (compressed into a zip format [20 MB or less] and do not require a seal) and submit them using the Aichi Electronic Application and Notification System.  
Please note that we do not accept bringing, mailing, faxing, or e-mail.

## 2 Call for Research Proposals

### (1) Ideal person for the proposer

While conducting many initiatives at the same time, we aim to efficiently and effectively collaborate with each other and achieve results that break through the issues as a whole.

In order for this project to be successful, it is essential to build a strong co-creation relationship in which all people involved in this project work on their own research and development while drawing the same vision. For this reason, we expect those who propose this project to participate having an awareness to meet all of the following items .

- Sympathize with the future vision and mission set forth in the strategy and plan, and are prepared to work hard with high aspirations to realize it.
- Having an overwhelming sense of ownership, search for an ideal way of being by changing the site involved in, and change my ideal to reality.
- In addition to devoting ourselves to individual research and development, we will take on the challenge of achieving higher results by collaborating with those involved in this project with a high perspective and a broad perspective.
- Industry-academia-government collaboration has been established, active contributions from private companies such as matching funds have been obtained, and participating companies have a mechanism to link the results of research and development to practical application and commercialization.
- Having a strategy for the outfit
- Having a strategy for social implementation that considers not only technology but also business, systems, social acceptance, and human resources.

### (2) Contributions from industry

In promoting the issues in the Priority Research Projects, the prefectural government and outsourced organizations will seek human and material contributions from private companies in order to engage in research and development in cooperation and collaboration with industry for social implementation. For individual research themes in each project, which are mainly aimed at social implementation in the private sector and have a high R&D phase, we will use the matching fund method, in which both the prefectural government budget for Priority Research Project and private companies implementing the research themes will pay half of the costs. This approach is based on the matching fund in the third phase of the SIP (Strategic Innovation Promotion Program by Cabinet Office of Japanese national government).

- Concept of matching funds in the third phase of SIP (December 23, 2022 Issued by its Governing Board)

[https://www8.cao.go.jp/cstp/gaiyo/sip/sip\\_matchingfund.pdf](https://www8.cao.go.jp/cstp/gaiyo/sip/sip_matchingfund.pdf) (Japanese)

### (3) Open Access and Data Management

As a general rule, researchers participating in this project will be required to publish their research results through organizational repositories\* and publications based on the premise of open access. In addition, you will be required to prepare a data management plan that describes policies and plans regarding the storage, management, disclosure, and non-disclosure of research data generated as a result, submit it together with the research plan, store, manage, and publish research data based on this plan.

\* An electronic archiving system established by universities and R&D institutes to accumulate, preserve, and publish the intellectual products of their researchers in electronic form.

## 3. Outline of "Priority Research Project V"

### (1) Project Overview

In order to solve the technical issues faced by local industries in the prefecture, universities, research and development institutes, etc. (hereinafter referred to as "universities, etc.") Industry, academia, and government work together on research and development with the aim of promoting the development and practical application of new technologies and the creation of new industries. The research theme is to contribute to the industrial development in the prefecture and the realization of a decarbonized society through innovation originating in the prefecture.

### (2) Research Fields

Based on the efforts of Priority Research Projects I~IV, we will strengthen the global competitiveness of Aichi's industries and contribute to GX and the SDGs by further participating in various organizations, setting flexible research frameworks, utilizing DX-related technologies, and optimally combining industrial fields in four fields ((1) manufacturing, (2) healthcare, (3) Agri Fish, (4) Carbon Neutral).

#### ① Manufacturing

[Advanced processing, control technology, which is the foundation of the prefectural industry, for next-generation mobility

Innovative materials and other technologies, etc. ]

(Keywords in the expected research target field)

Next-generation automobiles, aerospace, robotics, high-efficiency and low-cost processing, composite materials, digital twins, dissimilar material bonding, digital product passports (DPP), autonomous driving, etc.

② health care

[Medical and nursing care welfare technology that supports medical personnel and patients, etc.]

(Keywords in the expected research target field)

Nursing care devices, AI medical devices, frailty measures, elderly monitoring systems, infectious disease countermeasures, etc.

③ Agri Fish

[Smart technology aiming to increase the yield of agricultural crops and fisheries, etc.]

(Keywords in the expected research target field)

Biotechnology, fermentation technology, weather and oceanographic forecasting, technology for reducing work and improving productivity, plant factory, aquaculture technology, etc.

④ Carbon Neutrality

[Technologies for realizing a decarbonized society using innovative materials, hydrogen, etc.]

(Keywords in the expected research target field)

Next-generation batteries, hydrogen and ammonia, methanation, high-throughput material synthesis, CO<sub>2</sub> absorption and removal technology, offshore wind power, subsea power transmission, etc.

(3) Research theme and team composition

Research themes will be selected for each research field.

One research team will be established for each research theme (a joint research team of industry-academia-government collaboration consisting of companies, universities, etc. Please refer to page 21 for the definition of the constituent bodies.).

(4) Research Scheme (Application Frame) and Implementation Period

There are three types of application frames during implementation period of Priority Research Project V. is shown in Table 1.

The contract is renewed every year. In addition, if unavoidable circumstances arise due to budget constraints, or due to research evaluation, etc., the research plan and budget may be reviewed or the research may be canceled in the middle of the implementation period.

Table 1 Application Frames

Frame	(a) Challenge frame	(b) Practical frame	C. International Frame
Implementation Period	2 years (FY2025~FY2026)	4 years (FY2025~FY2028)	1 years of Preliminary Research (FY2025) 3 years of full-scale research (2026~2028)
Research Fund	Up to 30,000,000 yen/year	Up to 100 million yen/year	Preliminary research within 5 million yen/year Full-scale research within 25 million yen/year
Number of Adopted Themes	About 12 themes	About 4 themes	About 10 preliminary research themes About 2 full-scale research themes
Goal	Aim to establish technology (TRL <sup>*1</sup> 5 or more)	Commercialization (commercialization and implementation in the prefecture) (TRL7 equivalent or higher)	Aim to establish technology (TRL <sup>*1</sup> 5 or more)
Other	Stage gates <sup>*2</sup> will be set at the end of FY2026	Stage gates will be set at the time of the interim evaluation (end of FY2026)	A review committee will be set at the end of the preliminary research (end of FY2025), and a stage gate <sup>*3</sup> will be set up in the middle of the full-scale research (around October 2027).

\*1 Technology readiness levels, TRL5: Applied research and development (technology demonstration under assumed usage environment), TRL7: Demonstration (top user test)

\*2 If the theme of challenge frame is highly evaluated at the end of the frame periods, it will be continued for an additional two years. Even in the practical frame, there is a possibility that research funds will be increased or decreased or canceled depending on the evaluation at the time of the interim evaluation.

\*3 The international frame will be narrowed down to about two projects as full-scale research after a one-year preliminary research and a review. For preliminary research, a preparatory plan for the formulation of a research project by overseas universities, professors (laboratories) of domestic universities, and companies in the prefecture is required. As a prerequisite for the transition to the FY2026~FY2028, it is necessary that a joint research agreement is scheduled to be concluded between an overseas university, a domestic university, and a company in the prefecture. The content of the plan should be satisfactory from

the viewpoint of Japanese economic security provisions.

Note 1: When applying, the same theme (research content) or the same research leader may not make multiple proposals across the application frames. Judging will be conducted on a Research field basis and will not be accepted outside of the applied frame.

Note 2: Challenge and practical frames are also available for participation by overseas universities and R&D institutes. Even in that case, the participation of domestic universities is essential.

Table 2 NASA Definition of TRL

TRL 9	Actual system “flight proven” through successful mission operations
TRL 8	Actual system completed and “flight qualified” through test and demonstration (ground or space)
TRL 7	System prototype demonstration in a space environment
TRL 6	System/subsystem model or prototype demonstration in a relevant environment (ground or space)
TRL 5	Component and/or breadboard validation in relevant environment
TRL 4	Component and/or breadboard validation in laboratory environment
TRL 3	Analytical and experimental critical function and/or characteristic proof-of-concept
TRL 2	Technology concept and/or application formulated
TRL 1	Basic principles observed and reported

Source: Web page of NASA

[https://www.nasa.gov/directorates/heo/scan/engineering/technology/txt\\_accordion1.html](https://www.nasa.gov/directorates/heo/scan/engineering/technology/txt_accordion1.html)

Table 3 Provisional translation and explanation of NASA's TRL

TRL Level	Research Phase	substance
TRL9	industrialization	mass production
TRL8		Completion and verification of the system
TRL7	actual proof	Top User Testing
TRL6		Demonstration
TRL5	Applied Research & Development	Demonstration
TRL4		Demonstration of technology at the laboratory level
TRL3		Experimental proof of technical concepts
TRL2	basic research	Formulation of principles and phenomena
TRL1		Elucidation of basic principles and phenomena

Source: JST Research and Development Strategy Center Overseas Research Report

"Support for the Development of Translational Research Infrastructure in Major Countries"

<https://www.jst.go.jp/crds/report/report10/CRDS-FY2015-OR-03.html>

Table 4 Image of the scheme

(a) Challenge frame

- [Research Evaluation (Stage Gate)]
- ① Completion of research (in which case, new research theme will be called and adopted)
  - ② Manufacturing phase and judgment (transition to follow-up)
  - ③ Highly evaluated and judged to be able to continue research (continue research)

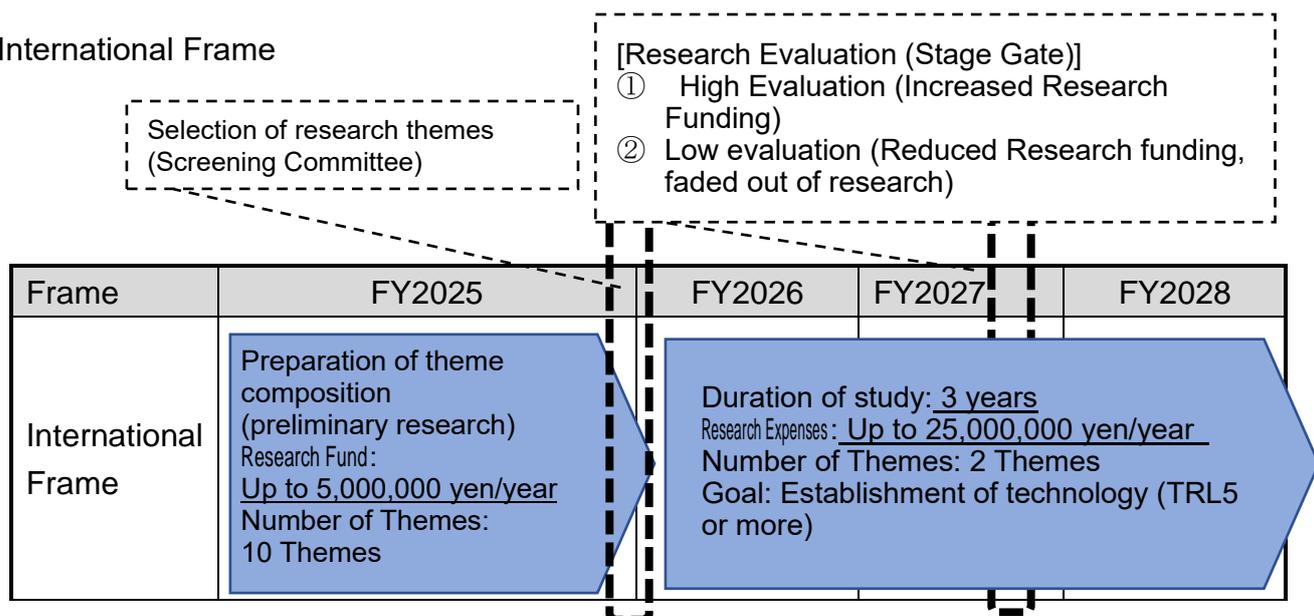
Frame	FY2025	FY2026	FY2027	FY2028
Challenge Frame	Duration of study: <u>2 years</u> Research Expenses : <u>Up to 30,000,000 yen/year</u> Number of Themes: 12 Themes Goal: Goal of establishing technology (TRL5 or more)		(1) Adopt and conduct new research (2) Transition to follow-up (3) Research period (study period: 2 years, Research funding: Up to 30 million yen/year, Goal: Commercialization (TRL7 or more))	
Hands On-support	<ul style="list-style-type: none"> <li>• Fraunhofer-Gesellschaft (Germany), Taiwan Institute of Industrial Technology (ITRI) (Taiwan) bringing the gap between commercialization and technology establishment with international credibility and expertise as international third-party support organizations, conduct benchmarking studies, market assessments and proposals, etc.</li> <li>• Participation in the STATION Ai implementation program by startups that have adopted research themes</li> </ul>			

(b) Practical frame

- [Research Evaluation (Stage Gate)]
- ① High Evaluation (Increased Research Funding)
  - ② Low evaluation (reduced research funding, faded out)

Frame	FY2025	FY2026	FY2027	FY2028
Practical frame	Duration of study: <u>4 years</u> Research expenses : <u>Up to 100 million yen per year</u> Number of Themes: 4 Themes Goal: Commercialization and practical application		(1) Increased research funding (2) Reduced research funding or faded out of research	
Hands On-support	<ul style="list-style-type: none"> <li>• Fraunhofer-Gesellschaft (Germany), Taiwan Institute of Industrial Technology (ITRI) (Taiwan) bringing the gap between commercialization and technology establishment with international credibility and expertise as international third-party support organizations, conduct benchmarking studies, market assessments and proposals, etc.</li> <li>• Participation in the STATION Ai implementation program by startups that have adopted research themes</li> </ul>			

C. International Frame



(5) Achievement Goals

In setting research targets, it is assumed that they will benefit the various issues of industrial and technological development in the prefecture (increase the national share of the shipment value of manufactured products, etc.). At the stage of commercialization and practical application of the results of the research theme, it is necessary to set targets and plans on the assumption that prefectural companies/human resources will take the lead or be heavily involved, and that they will contribute to improving the national share of the shipment value of manufactured products.

Depending on the application frame, you will set the "goals" described in 3 (4) for each theme. As much as possible, set goals that will help solve cross-cutting issues in the industry in your research field. However, please note that the goal setting may be revised due to the recommendations in 3 (13) (a) and (b).

(6) Main research location

It is envisioned as Knowledge Hub Aichi(Toyota city), a university, an R&D institute inside and outside the prefecture, or a corporate R&D base. Please refer to Annex 1 for "Overview of Knowledge Hub Aichi," Annex 2 for "Laboratory Specifications," and Annex 3 for "Overview of the Empirical Research Area."

(There are conditions for using the Laboratory in Knowledge Hub Aichi (see "(13) c" and Annex 2))

(7) Project Structure

The prefectural government will outsource the management of Priority Research Project V(work to support the progress management of research

activities conducted by the research team and promotion of the use of research results, execution and management of research expenses, and administrative work related to review and evaluation) to an external organization (hereinafter referred to as "outsourced organization").

The members of the Joint Research Team participating in Priority Research Project V are required to conclude a joint research agreement with an outsourced organization based on Annex 4 "Joint Research Agreement Template (for Companies), (for Universities, etc.)".

**Note:** There is no attachment of Annex4 to the English version(only for Japanese version)

## (8) Research expenses

The research expenses per research theme (= 1 research team) vary depending on the application frame, and are limited to the challenge frame (up to 30 million yen/year), the practical limit (up to 100 million yen/year), and the international frame (up to 5 million yen/year for the first year, and up to 25 million yen/year for the second and subsequent years) (excluding co-payments). )。

The amount of research expenses will be notified at the time of selection after the theme review. In addition, the executing body, eligible expenses, and co-payment expenses are as follows.

### (a) Executing body

Research expenses are executed by outsourced organizations or companies, universities, research and development institutes, etc. that are participating organizations.

### (b) Eligible expenses (common to companies, universities, etc.)

The categories of eligible expenses that can be executed are as follows: For details, please refer to Annex 5 "Priority Research Project V. Expense Classification".

- ① Equipment Fee<sup>\*4, 5</sup>, Prototype Fee
- ② Personnel expenses (fixed-term researcher fees, research assistant fees (including administrative assistants), etc.)
- ③ Business implementation expenses (consumables, travel expenses, honorariums, miscellaneous service expenses, etc.)
- ④ Administrative expenses (indirect expenses up to 10% of the total amount of (1) ~ (3) (20% for universities, etc.)

\*4 Acquisition price of 100,000 yen or more and usable period of one year or more. Excludes general-purpose products.

\*5 As a general rule, equipment and prototypes acquired with the grant research fund are assets of Aichi Prefecture, so please do not purchase equipment with a mixture of the provided research expenses and the co-payment fee.

In principle, the equipment and prototypes acquired in connection with this project will become the property of Aichi Prefecture, and after the implementation period ends, the prefecture will decide how to use them, such as continuing research by participating research institutes and follow-up research and technical support by prefectural research and development institutes.

(9) Co-payment on the research (matching funds) (see Table 5) )

- As a mechanism to build a system for coordinating and collaborating with industry to achieve the research goals, in principle, we will seek matching funds from participating companies for those that are close to practical application and contribute exclusively to strengthening the competitiveness of companies.
- For the challenge frame, if the goal at the end of the research is TRL5, a voluntary rate<sup>\*6</sup> of the burden will be required for each fiscal year. If the goal is TRL6 or more, we will ask you to pay the same amount as the research expenses provided for each fiscal year (if there are multiple participating companies, it will be calculated based on the total amount of each company). However, if the applicant expresses a desire to actively utilize the hands-on support described in 3 (13) a, the burden will be at least 1/2 of the research expenses provided, taking into account that the support will contribute to practical application. In the calculation, the burden on mid-tier enterprises and small and medium-sized enterprises is doubled, and startups<sup>\*7</sup> are required to bear the burden. For each startup participation, the burden can be reduced up to 10 million yen.
- The practical frame will be treated in the same way as the above challenge frame, depending on the setting goal up to the stage gate at the end of the first two years, and if it is TRL5 or less or TRL6 or more. For the last two years after passing the stage gate, the same way of TRL6 or more as above challenge frame because the goal is TRL7 or more.
- International frame are exempt from co-payment in the first year. If the application is adopted from the second year onwards, it will be the same as the challenge frame.
- In all application frames, we do not require matching funds for projects that are close to practical use, although that do not contribute exclusively to strengthening the competitiveness of companies, but that are intended to be put to practical use by the public such as local governments. However, local governments will make policy contributions for practical use, including non-

monetary ones, and will plan in coordination with local governments, for example, considering budgeting after the completion of the research and revising the system for utilization. In addition, if joint efforts between the public and private sectors are required for practical application, the burden of the matching fund and the contribution of local governments, etc., will be planned in consideration of the ratio.

- The goal TRL may differ from the initial plan and the research team's self-evaluation depending on the evaluation and judgment at the stage gate. In that case, the evaluation of the Project Evaluation Committee will be followed.

\*6 Expenses that are directly related to research, such as personnel expenses, honorariums, travel expenses, goods expenses (the amount can be according to the amount of use of the possessions), background intellectual property expenses (intellectual property rights (hereinafter referred to as "intellectual property") held before participating in the project, and intellectual property rights acquired without participation) expenses, etc., are eligible. In the calculation, expenses consumed by indirect sectors such as universities and companies are excluded.

\*7 A startup is a small and medium-sized enterprise or sole proprietorship that has been in business for less than 10 years, in principle aiming for rapid growth through the use of cutting-edge technologies and new business models. However, only those that are certified as startups based on the business of public organizations are considered startups even if they are more than 10 years old.

Table 5 Matching Funds

As general	<ul style="list-style-type: none"> <li>• The burden on small and medium-sized enterprises will be doubled and the amount will be paid co-payment.</li> <li>• For each startup participation, the co-payment is reduced by 10 million yen.</li> <li>• If you wish to actively use hands-on support, you will be asked to pay at least 1/2 of the research expenses.</li> <li>• Although it is close to practical application, "those that are intended to be put to practical use by the public such as local governments" do not require copayment.</li> </ul>
Challenge Frame	<ul style="list-style-type: none"> <li>• If the goal is TRL5, we will ask you a voluntary rate of copayment for each fiscal year.</li> <li>• If the target is TRL6 or more, the applicant will be required to pay at least the same amount as the research expenses provided each year.</li> </ul>
Practical frame	<ul style="list-style-type: none"> <li>• If the goal is TRL5 (for the first half period(FY2025~FY2026)), we will ask for a voluntary rate of co-payment for each fiscal year.</li> <li>• If the goal (in the first half period (FY2025~FY2026)) is TRL6 or more, we will ask you to pay at least the same amount as the</li> </ul>

	<p>research expenses provided for each fiscal year.</p> <ul style="list-style-type: none"> <li>• In the second half period (FY2027~FY2028), you will be required to pay at least the same amount as the research expenses provided each fiscal year.</li> </ul>
International Frame	<ul style="list-style-type: none"> <li>• In the first year (FY2025), no co-payment will be required.</li> <li>• In the case of adoption after the second year (2026~2028), the same copayment as the "challenge frame" will be required.</li> </ul>

(10) Research Team Structure

(a) Installation of a leader

The research team that implements the research theme has one "research leader" (either industry-academia-government or government) and a "commercialization leader" (companies only) for each R&D target. The research teams will be presided over to conduct appropriate and efficient research and development.

(b) Participation of overseas organizations (universities, etc.)

- If the participation of the overseas organization is necessary or beneficial for the promotion of research and development, participation of overseas organizations in the research team will be possible.

In that case, the overseas organization will participate in the research theme by concluding a contract with a domestic university or a company in the prefecture for the implementation of research activities on the research theme in the Priority Research Project, rather than concluding a joint research agreement with an outsourced organization.

- For international frames, please follow 3 (4)\*3.

(11) Matters related to intellectual property (hereinafter referred to as "intellectual property")

(a) About the Intellectual Property Committee

- In addition to announcing papers on research results and determining policies for obtaining intellectual property rights, concealment, and publication, the research leader's organization will necessary to have an "Internal Intellectual Property Committee" within each research team to coordinate the conclusion of confidentiality agreements between participating organizations within the research team, confirm the status of concluding, share information among participating organizations, and coordinate the licensing of intellectual property rights as necessary. Suppose that it is placed.
- The detailed management method of the Intellectual Property Committee within the team will be determined through consultation among the

participating organizations of each research team.

- The Intellectual Property Committee shall be established within the outsourced organization to provide a general consultation desk for the publication of research results by each research team and policy decisions on the acquisition, confidentialization, and publication of intellectual property rights, as well as coordination of confidentiality agreements between participating organizations within the research team, coordination of licensing of intellectual property rights, etc.
- As a general rule, the Intellectual Property Committee shall consist of outsourced organizations and experts (lawyers and patent attorneys).
- The Intellectual Property Committee within the team regularly (about once a year) reports to the Intellectual Property Committee within the outsourced organization on the status of the conclusion of confidentiality agreements for each research team, the status of retention of intellectual property rights as a result of Priority Research Project V, and the status of activities of the Intellectual Property Committee within the team (The reports to the Intellectual Property Committee within the team are made by the Intellectual Property Committee might be conducted by multiple research teams at the same time), and it will be consulted by Intellectual Property Committee within the team for Intellectual Property Committee within the outsourced organization, at any time about problems related to intellectual property rights, etc.
- In the first year, the Intellectual Property Committee within the team of the team that adopted the international frame shall discuss whether there are any problems from the viewpoint of economic security in the content and method of collaboration with overseas universities, and report to the Intellectual Property Committee within the outsourced organization, and the Intellectual Property Committee shall report the contents of the report to the Examination Committee (in the examination of whether or not to continue from the second year onward). The review committee will refer to the report on their evaluations.)

(b) Arrangements on intellectual property and its rights

- Confidentiality and background intellectual property rights (intellectual property rights held by the research leader, commercialization leader, and participating organizations of each research team before the project participation and intellectual property rights acquired after the project participation regardless of the project expenses), The handling of foreground intellectual property rights (intellectual property rights generated by the project expenses of Priority Research Projects within the project) will be determined by contract between the participating organizations within each research team after examination by the Intellectual Property Committee within the team.

- (c) Licensing of background intellectual property rights
  - Licensing of background intellectual property rights to others within each research team may be granted by the intellectual property rights holder in accordance with the conditions set by the intellectual property rights holder or the agreement between the participating organizations.
- (d) Handling of foreground intellectual property rights
  - As a general rule, Article 17, Paragraph 1 of the Industrial Technology Enhancement Act shall apply to foreground intellectual property rights, and shall belong to the organization to which the inventor belongs.
  - If the holder of the intellectual property rights has little intention to commercialize, the Intellectual Property Committee within the team shall recommend that the person who actively seeks commercialization hold the intellectual property rights or establish a license to the person who actively aims to commercialize the property.
- (e) Licensing of Foreground Intellectual Property Rights
  - Licensing of foreground intellectual property rights to other participating organizations within each research team shall be made available to the intellectual property rights holders in accordance with the conditions set by the intellectual property rights holders or agreements between the participating organizations.
  - Licensing of foreground intellectual property rights to third parties shall be permitted by the intellectual property rights holder in accordance with the conditions set by the intellectual property rights holder, to the extent that the conditions are not more favorable to those of the organizations participating in the research team. In addition, in the case of establishing a license or approving the transfer, the Intellectual Property Committee within the team shall seek opinions from the Intellectual Property Committee within the outsourced organization, and based on the results, apply for prior approval to Aichi Prefecture through the outsourced organization.
  - If there is a risk that the response of the intellectual property rights holder will interfere with the promotion of the Priority Research Project (including not only research and development but also the practical application and commercialization of the results), the Intellectual Property Committee within the team shall consult with the Intellectual Property Committee within the outsourced organization, coordinate based on the results of deliberations by the committee within the outsourced organization, and obtain a reasonable solution.
- (f) Transfer of foreground intellectual property rights, establishment and approval of

transfer of exclusive licenses

- In accordance with Article 17 of the Industrial Technology Enhancement Act (Japan's version of the Bayh-Dole Clause), in the transfer of foreground intellectual property rights and the establishment and transfer of exclusive licenses, the Intellectual Property Committee within the team shall seek opinions from the Intellectual Property Committee within the outsourced organization. Based on the results, we will apply for prior approval to Aichi Prefecture through the outsourced organization.
- In the event of a transfer of intellectual property rights due to a merger, etc., the intellectual property rights holder shall seek opinions from the intellectual property committee within the outsourced organization through the internal intellectual property committee of the team, and based on the results, apply for prior approval to Aichi Prefecture through the outsourced organization.

(g) When a student who does not have an employment relationship with a university or R&D institute becomes an inventor.

Universities and R&D institutes are required to enter into contracts with members participating in research at the institute to the effect that foreground intellectual property rights arising from the implementation of research belong to the research institute, or to establish rules of duties that stipulate such agreement. In particular, if a student who does not have an employment relationship with the institute becomes a research member, it is necessary to take necessary measures such as concluding a contract with the student in advance so that the intellectual property rights related to the invention (including inventions, etc.) made by the student in the course of conducting this research belong to the organization, unless it is clear that the student cannot be the inventor. In addition, please take care not to cause disadvantage to the student who becomes the inventor with regard to the conditions regarding the consideration for the succession of intellectual property rights. In addition, in the event of a transfer or the establishment of an exclusive license for the intellectual property rights, in principle, the Intellectual Property Committee within the outsourced organization shall be requested in advance through the Intellectual Property Committee within the team, and the results shall be applied to Aichi Prefecture for prior approval through the outsourced organization.

(12) Responsibilities of the research team

The selected research team shall have the following responsibilities in promoting research and development.

(a) In conducting research and development, follow the instructions of an

outsourced organization. In addition, after receiving the notification of acceptance, a joint research agreement with an outsourced organization must be concluded promptly.

- (b) Hold meetings and other meetings presided over by the research leader or commercialization leader and composed of persons engaged in research, etc., as appropriate, to share information on the progress of research and to cooperate closely.
- (c) Actively disseminate information, such as press releases of research results.
- (d) Strive to make active use of facilities at the Aichi Center for Science and Technology, such as advanced measurement and analysis instruments at the Center and the facilities of the Aichi Synchrotron Center of the Aichi Science and Technology Foundation.
- (e) In addition to conducting self-evaluations, the research leader will act as a point of contact for research evaluations at the stage gate, such as preparing evaluation materials and explaining the results.
- (f) Reflect the results of research evaluations in projects and strive to strengthen the implementation system.
- (g) Even after the implementation period ends, actively cooperate with the prefectural government and outsourced organizations to maximize the results of the project in order to disseminate the developed prototypes and new technologies to the region.
- (h) During the implementation period and for a certain period of time (3 years) after the end of the implementation period, quantitatively manage and grasp prototypes, products, patents, sales, economic effects, etc., and report them at the request of the prefecture.
- (i) The research team is obliged to respond to accounting investigations by the outsourced organization and prefectural accounting audits. If the prefectural government or the outsourced organization points out that it is due to an accounting audit, etc., it is necessary to follow measures such as changing the payment method of research expenses or reducing research expenses.
- (j) If the outsourced organization is required to be dissolved or its business is reduced, or if there is a change in the status of budget measures in the prefecture, the contract may be terminated during the contract period or measures may be taken to reduce the contract research expenses. In addition, based on the results of research evaluations conducted by the prefecture, measures such as increasing or decreasing contract research expenses, changing the contract period, or discontinuing research may be

taken, and if the prefectural government or an outsourced organization determines that it is not appropriate to continue the research, the prefecture may take measures such as canceling the contract even during the contract period. Universities, R&D institutes, and companies are required to comply with these measures.

- (k) When employing young researchers such as specially appointed faculty members and postdoctoral fellows, we will make efforts to secure the length of the research period after confirming with the personnel and accounting staff of the department, etc., and will also make efforts to secure the length of the research period, as well as other external indirect costs and basic expenses. Please make efforts to secure a certain period of office so that the term of office is not as short as possible by utilizing donations, etc.
- (l) If there is a participation of an overseas organization, as part of the research and development activities carried out by a domestic university or a company in the prefecture based on a joint research agreement with an outsourced organization, please respond to the payment of travel and accommodation expenses to persons invited by overseas universities and research institutes, and the execution of expenses such as research commission expenses to overseas organizations when the overseas organization conducts research activities (at the domestic university, etc.). It is assumed that a system is in place to comply with the "Standards for Compliance with Exporters, etc." stipulated in Article 55-10, Paragraph 1 of the Foreign Exchange and Foreign Trade Act. If this system is not in place by the time this pledge is submitted, the domestic university or company concerned shall conduct "exports, etc." as stipulated in Article 55-10, Paragraph 1 of the Foreign Exchange and Foreign Trade Act with respect to the goods and technologies acquired through the Proposed Research Theme or the goods and technologies already owned by the use of the Proposed Research Theme, or by the end of the Proposed Research Theme, whichever comes first. We shall establish a system that can comply with the "Standards for Compliance with Exporters, etc.").

(13) Matters needing attention to when applying

(a) Hands-on support

- In principle, all selected themes in the Challenge and Practical Frames are eligible for selection of support by a third-party organization (Fraunhofer-Gesellschaft (Germany) (FhG) or Taiwan Institute of Industrial Technology (ITRI)), except for themes that have expressed their desire to be supported.

Based on the selection of third-party organizations, about 10 projects will be selected with priority given to practical frames.

- The content of the support is expected to be technical surveys/superiority surveys compared to similar examples overseas, proposals for outcome goals and applicable markets, etc., and market field surveys. The purpose of this support is to speed up the commercialization of research results or maximize the effectiveness of the research results, and in principle, the research team will accept and cooperate with the support, and will make maximum use of the results (surveys, recommendations, etc.) during the adoption period (including revision of the research plan).
- Selection by a third-party organization will be made in the form of a revised version of the proposal (PowerPoint document) of the selected theme (English translation) that can be published (with consecutive interpretation if necessary).
- This support will begin in the summer of FY2025 at the earliest. The method is conducted through online meetings, on-site (overseas and domestic) surveys, etc. Expenses related to interpretation and overseas travel do not need to be included in the research expenses (to be borne by an outsourced organization).
- In addition, based on advice from third-party organizations and evaluation committees, domestic consultants may provide domestic versions of the above support.
- For examples of the use of third-party organizations, please refer to the Cabinet Office's Strategic Innovation Promotion Program (SIP) Final Results Report. (See <https://www.qst.go.jp/uploaded/attachment/36459.pdf>, pp. 56 et seq.)

(b) Stage gates, etc.

- All selected themes will be evaluated by the evaluation committee at the stage gate. This evaluation and advice will be made after exchanging information between the third-party organization and the committee members, and the research team should respond in good faith.

(c) Provision of laboratories of the "Knowledge Hub Aichi"

- If a startup belonging to a research team wishes, a laboratory (in principle, 1 room/company) will be provided by lottery for the duration of the research (free of rent, but it is assumed that the researcher etc. will stay at all times (\*)).
- In addition to startups, laboratories may be provided on the condition that researchers and others stay at all times.
- Please restore the laboratory to its original state and dispose of equipment by

yourself.

\* Assuming 4 days or more per week throughout the year

(d) Provision of an empirical research area for the "Knowledge Hub Aichi"

- An empirical research area has been set up on the premises of Knowledge Hub Aichi, which is a research and development base for manufacturing technology, to provide a place for demonstration research, and loans will be provided free of charge by prior arrangement at the request of the teams participating in this project (loans may not be possible depending on the adjustments).

(e) Exchange with STATION Ai (one of the largest startup facilities in Japan (Showa-ku, Nagoya City))

- As an opportunity to commercialize and enhance research results, we plan to interact with STATION Ai members (startups) and research teams. The research team should be actively involved.

#### 4 Outline of Call for Research Proposals

##### (1) Eligibility

Applicants shall be a research team consisting of the following companies, universities, research and development institutes, etc., and the representative organization representing the research team among the constituent organizations shall apply.

< company >

- Private companies (for-profit corporations or sole proprietors)

< University >

- Universities, Inter-University Research Institutes, and Overseas Universities

<R&D Institutes>

- National and public testing and research institutes, national research and development agencies, independent administrative agencies, medical care

Corporations, social welfare corporations, special corporations, authorized corporations, overseas public research and development institutes

- General incorporated associations, foundations, public interest incorporated associations, foundations

- Certified in accordance with the provisions of Article 10, Paragraph 1 of the Act on Promotion of Specified Non-Profit Activities

Specified Non-Profit Organization

In addition, none of the organizations that make up the research team must

fall under any of the following (a) to (e) categories.

- (a) A person who falls under the provisions of Article 167-4 of the Ordinance for Enforcement of the Local Autonomy Act (reasons for not allowing participation in general competitive bidding, etc.)
- (b) A person for whom the following petition has been filed:
  - Filing a petition for commencement of bankruptcy proceedings under the Bankruptcy Act
  - Filing a petition for commencement of reorganization proceedings under the Corporate Reorganization Act
  - Filing a petition for rehabilitation proceedings under the Civil Rehabilitation Act
- (c) A person who has been suspended from participating in the bidding by the prefecture
- (d) A person who is delinquent in paying corporate tax and local taxes
- (e) "Agreement on the Exclusion of Organized Crime Groups from the Affairs and Businesses Conducted by Aichi Prefecture" (In June 29 2012, Signed by the Governor of Aichi Prefecture and the Chief of the Aichi Prefectural Police Headquarters on June 29)

## (2) Composition of applicants

A research team through industry-academia collaboration consisting of companies (including one or more companies in the prefecture) and universities and research and development institutes inside and outside the prefecture (including overseas). However, please be sure to include medium-sized enterprises or small and medium-sized enterprises in the prefecture in the challenge frame. In addition, please assign a "research leader (eligible both industry person and academia person)" and a "commercialization leader (industry person only)" in the research team.

Only in cases where a development target is set that assumes commercialization by the public sector or collaboration between the public and private sectors, the commercialization leader may be "from either industry, academia or government."

\* For definitions of companies in Aichi Prefecture, medium-sized companies, small and medium-sized enterprises, etc., see Appendix 6.

## (3) Eligibility

The conditions for entry are to meet the following (a) and (b).

In addition, if it is discovered or doubted that the application conditions are

not met or that the content of the proposal is false after adoption, the selection may be canceled or the research expenses may be reduced.

- (a) A person selected as a research leader or commercialization leader may apply for only one research theme.
- (b) The research and development content that is the same or similar to the research theme to be applied for has not been adopted by competitive funds such as the national government or subsidies by local governments at the time of application. If you are applying for another project and have not been selected, please fill out Form 1.

(4) Number of adoptees

In fiscal 2025, a total of 26 projects were adopted, including 12 for challenge frame, 4 for practical frame, and 10 for international frame. The amount of the case (subject to change depending on the status of the examination and the relationship with the research fund) will be considered.

(5) Research theme proposal (challenge frame, practical frame)

When applying, please prepare and submit a research theme proposal (Form 1) and PowerPoint materials (up to 23 pages) (Form 2).

In addition, please fill in the following items in the PowerPoint document.

In addition, please fill in from the perspective of what kind of research content, business plan, practical application, etc. can be applied.

No	Number of pages	item
1	1 page	cover
2	1 page	Overall Picture Structure, Background, Issues, Research Themes, Targets, Means, Prospects
3	Up to 2 pages	Development Structure and Division of Roles
4	Up to 2 pages	Background and issues of the research theme (the necessity of implementing this theme, the reason why it is a cross-industry theme that cannot be solved by a single company)
5	Up to 2 pages	Latest Initiatives, Benchmarks, and Target Setting
6	Up to 2 pages	Research seeds that serve as weapons, international superiority, and patents
7	Up to 2 pages	Purpose of use of research seeds (what and how to solve them) * Please fill in the details of the research to achieve the targets to be implemented using seeds, including the innovation of the problem-solving method.
8	Up to 2 pages	Roadmap (Research Items of each Fiscal Year)

9	Up to 2 pages	Targets (what will be achieved at the end of the implementation period (all targets), current status, interim, prospects for achieving targets at the interim and end of the period, future prospects for technology)
10	Up to 2 pages	Business plans (including sales forecasts) at the following time of all participating companies (Achievement targets on page 7 (6)) For each development target, please describe the outcome at the end of the project, 1 year, 3 years, and 5 years after the end of the project.
11	1 page	Markets to target and their approaches
12	1 page	Contribution to Prefectural Industry
13	1 page	Human Resource Development (Researchers and Engineers)
14	1 page	Utilization of funds (main use of prefectural research funds, expected co-payments) * Please levelize the necessary expenses for each fiscal year as much as possible.
15	1 page	Conclusion (Proposer's Pledge)

Note: Documents to be submitted are Japanese only

#### (6) Preparatory Plan for Composition (International Frame)

When applying, please prepare and submit a preparatory plans for composition (Form 7) and PowerPoint materials (up to 13 pages) (Form 8).

In addition, please fill in the following items in the PowerPoint document.

In addition, please fill in the information from the perspective of what kind of research content, business plan, practical application, etc. can be developed by involving overseas universities.

No	Number of pages	item
1	1 page	cover
2	1 page	Overall Picture Development Structure, Division of Roles, Background, Issues, Research Themes, Targets, Means, Prospects
3	Up to 2 pages	Background and issues of the research theme (the necessity of implementing this theme, the reason why it is a cross-industry theme that cannot be solved by a single company)
4	Up to 2 pages	Latest Initiatives, Benchmarks, and Target Setting
5	Up to 2 pages	Research seeds that serve as weapons, international superiority, and patents
6	Up to 2 pages	Roadmap (Research Items of each Fiscal Year)

7	1 page	Contribution to Prefectural Industry
8	1 page	Human Resource Development (Researchers and Engineers)
9th	1 page	Utilization of funds (main use of prefectural research funds, expected co-payments) * From the second fiscal year onwards, please levelize the necessary expenses for each fiscal year as much as possible.

Note: Documents to be submitted are Japanese only

### (7) Call for Research Proposals Schedule

The schedule from the call for applications to the selection is as follows.

Tuesday, February 18, 2025 ~ Friday, March 21, 2025 Call for Research Proposals Period

February 25 (Tue) ~ March 14 (Fri) Outline of the call for Research Proposals (on-demand streaming)  
(See page 39 for details.) )

Late March ~ Late April (18th)\* Pre-Examination Hearing (All Proposal Themes)

Early May First Screening

Mid May Announcement of Selected Themes (Challenge Frame, International Frame)  
(Notification of results to the representative organization (research leader))

Mid-late May Hearing Examination\* (Only for cases that have passed the first screening (practical frame))

\* The content of the presentation at the hearing shall be based on the submitted materials.

\* The examination date is from the notification of the results of the first screening

Please note that it will be short time after notification of the results.

May 28 (Wed) Announcement of the theme adopted for the practical frame

	(Notification of results to the representative organization (research leader))
June 3 (Tue)	Announcement and Notification of Selected Themes
Early June~	Commencement of research activities, theme selection for hands-on support recipients (PowerPoint (English), etc. submitted to an outsourced organization. If necessary, there will be a direct hearing via online meeting.)
July	Decision of recipients of Hands-on support
August~	Starting of Hands-on support
* Pre-screening hearings may be held as soon as the proposal is submitted.	

(8) Distribution of application guidelines

Please download the application guidelines and the documents to be submitted from the web page of the Prefectural Industrial Science and Technology Division during the application period.

(9) Acceptance of questions regarding Call for Research Proposals

If you have any questions about the Application Guidelines, please submit your name and organization by e-mail by Friday, March 14, 2025 on page 38 "8 Contact Information".

At that time, please write "Questions about Priority Research Project V. Call for Research Proposals (Name of rganization)" in the subject line.

Answers to the submitted questions will be posted on the website of the Prefectural Industrial Science and Technology Division by Monday, March 17, 2025, withholding the name of the organization.

(10) Submission of proposals, etc.

A set of documents to be submitted (hereinafter referred to as "proposals, etc.") Please submit it according to the following acceptance period and method.

A.Reception period

From Tuesday, February 18, 2025 to Friday, March 21, 2025 at noon

B. Method of submission

Please search for "Open Call for Applications for the 5th Term of the Aichi

Priority Research Project at Knowledge Hub Aichi " on the following prefectural web page "Aichi Electronic Application and Notification System" and submit\* through the system (no bring, mail, or e-mail is allowed).

[https://www.shinsei.e-aichi.jp/pref-aichi-u/offer/offerList\\_initDisplay.action](https://www.shinsei.e-aichi.jp/pref-aichi-u/offer/offerList_initDisplay.action)

- \* When submitting, please combine them into one file and compress it into zip format (20MB or less).
- \* It is not necessary to affix a seal to the proposal.
- \* Please make sure that there are no deficiencies or deficiencies in the proposal before submitting it.

C. Documents to be submitted (challenge frame, practical frame)

- (a) "Aichi Priority Research Project V" Research Theme Proposal (Form 1)
- (b) PowerPoint materials\* (Form 2) (23 pages or less)
- (c) Written pledge (Form 3) (for all participating organizations)
- (d) Outline of participating companies (Form 4) (for all participating companies)
- (e) Career and achievements of the research leader (Form 5)
- (f) Career and achievements of the commercialization leader (Form 6)

D. Documents to be submitted (international)

- (a) Preparatory Plan for the Formation of the Aichi Priority Research Project V, at Knowledge Hub Aichi (Form 7)
- (b) PowerPoint materials\* (Form 8) (13 pages or less)
- (c) Written pledge (Form 9) (for all participating organizations)
- (d) Outline of participating companies (Form 10) (for all participating companies)
- (e) Career and achievements of the research leader (Form 11)

\* (Common to "C" and "D") Please create the PowerPoint document as follows.

- 1 page, A4 size horizontal
- As a general rule, the font size should be 12 points or more (this does not apply to charts and tables, etc.)
- Enter the page number
- Delete italic characters written on the format.

E. Other Things

Proposals, etc. will not be used for any purpose other than the screening of the Public Offering. In addition, we will not accept changes the content of the proposals and will not return it.

After submitting the proposal, we will hold a pre-examination hearing on the content of the proposal by the outsourced organization (late March ~

mid-April), so please respond to the research leader. If necessary, we may ask for additional explanatory materials or conduct interviews about our business.

If you wish to withdraw after submitting a proposal, etc., please bring the Notice of Withdrawal (optional form) to the address "8 Contacts" on page 38 or submit it by mail.

#### (11) Notice of Examination and Notification

Based on the submitted proposals, etc., the research theme will be decided by reviewing the proposals as follows.

##### A. Screening method

The prefectural government has established the "Priority Research Project V Research Theme Review Committee (Third-Party Review Committee)" composed of experts and academics from industry, academia, and government, and will decide whether to accept or reject the project based on the results of the examination. After adoption, the Screening Committee will move to the Project Evaluation Committee.

The screening will be conducted in private, and the persons involved in the screening will comply with confidentiality regulations, such as not divulging any information obtained through a series of selections to third parties and managing the information with the duty of care of a good manager. We will not respond to inquiries regarding the progress of the examination or the status of the examination.

##### B. Screening process

###### ① Pre-Screening Hearing

We will hold hearings on the proposed themes by outsourced organizations. The results of the hearing will be sent to the screening committee as reference materials for the first screening.

###### ② First Screening (documents examination)

The Research Theme Review Committee will review the proposals and decide on the themes to be selected for the challenge frame and international frame. In addition, for the practical frame, proposals will be selected for the second screening.

###### ③ Second (hearing) examination (practical frame only)

The Research Theme Review Committee will conduct a hearing review for themes that have passed the first screening. The applicant (research leader) must attend the hearing. As a general rule, interviews will be conducted in Japanese.

###### ④ Notification and Announcement of Selection Results

The results of the first screening will be notified to all applicants who

have been selected. For themes that are subject to the second screening, we will inform you of the implementation procedures and schedule of the second screening along with the notification. Applicants who are found to have deficiencies in the formal selection will also be notified of the results. The results of the second screening will be notified to all applicants who are eligible for the second screening. At the same time, the name of the research theme, the name of the research leader, the name of the organization to which the applicant belongs, and the outline of the research theme will be announced on the website. provided, however, that the name of the R&D Supervisor, the title of the Research Leader, and the name of the department to which the R&D Officer belongs, may be substituted with the name of the representative of the department or organization to which the Research Leader belongs on the application form, provided that the publication of the name of the R&D Officer is a hindrance to the promotion of the project. If your proposal is rejected, you will be notified of the reason for your rejection at a later date. In addition, the contents of the application, including the fact that it has been submitted, will not be disclosed to anyone other than the applicant.

C. Evaluation items in the examination

- (a) Validity and superiority of R&D content
- (b) Clarity and innovation of goals
- (c) Degree of contribution to the prefectural industry and view of human resource development

D. Notification and announcement of examination results

The results of the screening will be notified in writing to the representative organization (research leader) of all the research teams that have applied by June 3, 2025 (Tuesday). However, we will not accept challenges against the results. In addition, the outline of the selected research theme will be made public.

E. Conflicts of interest in the examination

From the viewpoint of fair and transparent evaluation, the following stakeholders will not participate in the selection, related to research leaders and commercialization leaders (hereinafter referred to as "research leaders, etc.").

- a. A person who has a kinship with the Research Leader, etc.
- b. A person who belongs to the same department, major, etc., or the same company at a research and development organization such as a university or a national research and development corporation with a research leader, etc.

- c. A person who conducts close joint research with a research leader, etc. (e.g., a person who conducts a joint research project, writes a joint research paper, is a research member with the same purpose, or a collaborator in the research topic of the proposal, and is considered to belong to the same research group as the proposer).
- d. Those who have a close mentor-apprentice relationship or a direct employment relationship with the Research Leader, etc.
- e. A person who has an academic competitive relationship with a research project such as a research leader, or a person who belongs to a company that has a competitive relationship in the market.
- f. Other persons judged by the prefecture to be interested parties  
Members of the Judging Committee are not eligible to apply for this competition.

## 5 Promotion of research after adoption

### (1) Preparation of a research plan

After the results of the selection are announced, you will be required to promptly prepare and submit a research plan for each fiscal year for the selected research theme.

### (2) Joint Research Agreement

- After adoption, a joint research agreement will be concluded between the outsourced organization and each organization.
- Research may not be conducted by an outsourced organization if it is unable to conclude a joint research agreement with a company or university, if each organization is unable to establish a system necessary for the management and auditing of public research funds, or if its financial situation is extremely unstable.
- In principle, intellectual property rights such as patents generated by research belong to companies, universities, etc., based on joint research agreements, subject to the compliance of companies, universities, etc. with the matters listed in Article 17 of the Industrial Technology Capability Enhancement Act (Japan's version of the Bay-Dole Clause).

### (3) Management of research funds

The research leader should appropriately manage the research funds of the entire research team (expenditure plan and execution, etc.) together with the affiliated organization and the joint research and development institute.

(4) Management of members participating in research and development

The research leader should consider the research environment, work environment, and conditions of the participating members, especially the researchers employed with this research grant.

(5) Research Evaluation

We will conduct a self-inspection using a technical evaluation from a professional perspective, and invite external experts with reference to the report of the results. In addition to the research evaluation at the stage gate and the "follow-up survey" conducted as necessary, evaluations may be conducted during fiscal year as necessary.

(6) Handling of research results

- (a) We recommend that you actively present your research results in Japan and overseas, but since this is prefectural funded by research and development, we ask that you give due consideration to the acquisition of intellectual property rights prior to such research.
- (b) As a general rule, intellectual property rights should be applied for by the affiliated organization based on the joint research agreement.
- (c) When presenting the research results of a Priority Research Project at a paper or academic conference, be sure to clearly state that it is the result of a "priority research project".
- (d) Regarding the follow-up survey after a certain period of time has elapsed after the completion of R&D, please provide various information and respond to interviews.

(7) Efforts to Prevent Misconduct in R&D Activities

- (a) Comply with the requirements of the application guidelines and the rules of the organization to which you belong.
- (b) Understanding that the research expenses of Priority Research Projects are funded by the taxes of the citizens of the prefecture, do not engage in misconduct (fabrication, falsification, or plagiarism) or improper use of research funds in research and development activities. If there is a change in the status of prefectural budget measures, we may cancel the contract during the contract period or take measures to reduce research expenses.

(8) Security Trade Control (Dealing with Technology Leaks Overseas)

- Many cutting-edge technologies are being researched at universities and research institutes, and the risk of leakage of advanced technologies, research materials, and equipment, etc., is increasing due to the increase in

the number of international students and researchers, especially in universities, where they will be misused for the development and manufacture of weapons of mass destruction. For this reason, when R&D institutes conduct various research activities, including such research, universities and R&D institutes are required to take systematic measures to ensure that research results that may be diverted for military purposes are not passed on to those who may engage in activities of concern, such as developers of weapons of mass destruction and terrorist groups.

- In Japan, for the purpose of maintaining international peace and security, the Foreign Exchange and Foreign Trade Act (Act No. 228 of 1949) (hereinafter referred to as the "Foreign Exchange Law") has been enacted. Export restrictions are in place based on the above. Therefore, if you intend to export (provide) goods or technologies that are regulated by the Foreign Exchange and Foreign Exchange Act, in principle, you must obtain permission from the Minister of Economy, Trade and Industry. Please comply with the Foreign Exchange Act, as well as national laws, guidelines, and notices.
- Not only the export of cargo, but also the provision of technology is subject to the regulation of the Foreign Exchange Law. If you want to provide list regulation technology to non-residents or in a foreign country, you need to obtain prior permission to provide it. The provision of technical information includes not only the provision of technical information such as design drawings, specifications, manuals, materials, and prototypes on paper, e-mail, CDs, DVDs, USB sticks, and other storage media, but also the provision of work knowledge through technical guidance and technical training, as well as technical support in the form of seminars. Please note that if you intend to export (provide) technologies acquired through this project, you may also be subject to regulations.
- In addition, if it is found that the technology acquired through this project violates regulations related to the Foreign Exchange Act, all or part of the contract may be terminated.

The details of security export control are published on the web pages of the Ministry of Economy, Trade and Industry. For more information, see:

- Ministry of Economy, Trade and Industry: Security Trade Control (General) <https://www.meti.go.jp/policy/anpo/>
- Ministry of Economy, Trade and Industry: Deemed Export Control (related page of \*2 above) <https://www.meti.go.jp/policy/anpo/anpo07.html>
- Ministry of Economy, Trade and Industry: Guidance for the Control of Sensitive Technology for Security Trade (for Universities and R&D institutes)

[https://o.Meti.jp/Policy/Anpo/Lo\\_Document/Tutatu/T07Sonota/T07Sonota\\_GShukanari03.PDF](https://o.Meti.jp/Policy/Anpo/Lo_Document/Tutatu/T07Sonota/T07Sonota_GShukanari03.PDF)

- Ministry of Economy, Trade and Industry: Model Security Trade Control Regulations Manual for Universities and Research Institutes  
<https://www.meti.go.jp/policy/anpo/daigaku/manual.pdf>
- Security Trade Information Center  
<https://www.cistec.or.jp/export/jisyukanri/modelcp/modelcp.html>
- Ministry of Economy, Trade and Industry: Security Trade Guidance (Introductory Edition) <https://www.meti.go.jp/policy/anpo/guidance.html>

## 6 Response to Unauthorized Use and Fraudulent Receipt of Benefits

Unauthorized use or unauthorized receipt of research funds related to the research project to be conducted (hereinafter referred to as "misuse, etc."). We will strictly respond as follows.

### (1) Measures such as termination of contracts

For projects that are found to be misused, we will cancel or change the contract and request the return of all or part of the research funds. In addition, contracts may not be concluded for the next fiscal year and beyond.

### (2) Application and Participation

Researchers who have misappropriated the research funds of this project (including researchers who have colluded with them) (Hereinafter referred to as "researchers who have committed unauthorized use, etc.") or researchers who were not found to have been involved in misuse, but who violated the duty of care of a good manager, depending on the degree of misconduct, As shown in Table 6, we will take measures to restrict the application and participation in this project, or take strict precautions. In addition, we may provide a summary of the misuse (name of the researcher who made the misuse, the name of the project, the affiliated organization, the research theme, the amount of the budget, the research year, the details of the misconduct, the details of the measures taken, etc.) to the person in charge of other competitive research funds, including other ministries.

### (3) Publication of Fraudulent Cases

In principle, the outline of the misconduct (name of the researcher, the name of the project, the organization to which the researcher belongs, the year of the research, the details of the misconduct, and the details of the measures taken) shall be made public at the outsourced organization for researchers who have misappropriated research funds or violated the duty of care of a good manager, and whose application and participation in this project are restricted.

Persons subject to application restrictions related to unauthorized use and receipt of benefits	Extent of abuse	Application Restriction Period*3
Researchers who have made unauthorized use and researchers who have conspired to do so *1	1. Private appropriation for personal gain	10 years
	2 Other than 1	(1) Those that have a large impact on society and are judged to be highly malicious in their actions
		Items other than (1) and (3)
		(3) Those that are judged to have a small impact on society and are not malicious in their actions.
Researchers who have received competitive funds, etc. through deception or other wrongful means, and researchers who have colluded with them		5 years
Researchers who are not directly involved in the unauthorized use but have used it in violation of the duty of care of a good manager *2		Depending on the extent of the researcher's breach of duty of care of a good manager, the maximum is 2 years and the minimum is 1 year.

Table 6: Measures to restrict the eligibility of researchers who violate the duty of care of a good manager

In the following cases, application and eligibility will not be restricted, and strict precautions will be notified.

\*1 When the impact on society is small, the maliciousness of the act is judged to be low, and the amount of unauthorized use is small.

\*2 When it is judged that the impact on society is small and the maliciousness of the act is low.

\*3 As a general rule, the application restriction period starts from the following fiscal year in which the research funds are refunded due to the recognition of unauthorized use. In addition, the eligibility for participation will also be restricted in the fiscal year in which unauthorized use is certified.

## 7 Miscellaneous

(1) Delivery date for accounting performance reports and research results reports, etc.

(a) The outsourced organization shall complete the project and inspect the results of the research.

(b) The deadline for submission of the accounting performance report is early April.

(c) The deadline for submission of research report results is early April.

Each R&D institutes should endeavor to develop the necessary systems within the organization so that it can respond to these measures. )

(2) Improvement of the treatment of doctoral students

- According to the "Guidelines for Educational Guidance" issued by the Ministry of Education, Culture, Sports, Science and Technology (MEXT) for doctoral students, "It is an important responsibility of a university to nurture researchers to create an environment for conducting research activities and to secure their treatment," and "It is particularly important to set the cost of labour commensurate with the nature and content of the work, and to treat them appropriately for their contributions, and paying them salaries according to the time they are engaged in their work under appropriate work management." When applying for competitive research grants, it is necessary to record expenses necessary for hiring RAs as direct expenses, and to review the internal regulations so that RAs can be paid an appropriate level of compensation."
- Based on the above, in this project, you should actively employ doctoral students as RAs, etc., and set unit prices commensurate with the nature and content of the work, and pay salaries according to the hours engaged in the work under appropriate work management. In addition, when applying for this project, please apply under a financial plan that takes into account the salary amount for doctoral students mentioned above.

- When hiring young researchers, such as specially appointed faculty members or postdoctoral fellows, please check with the personnel and accounting staff of the department, etc., and strive to ensure that the term of office is not as short as possible by utilizing indirect expenses, basic expenses, donations, etc. from other external funds.

## 8 Inquiries

Aichi Prefecture Bureau of Economy and Industry, Industry Department, Industry and Science Technology Division, Science and Technology Group

〒460-8501 3-1-2 Sannomaru, Naka-ku, Nagoya-shi Main Office Building 2nd Floor

Tel: 052-954-6351 FAX: 052-954-6977

U R L : <http://www.pref.aichi.jp/san-kagi/kagaku/>

E-mail : [san-kagi@pref.aichi.lg.jp](mailto:san-kagi@pref.aichi.lg.jp)

## Outline of the Call for Research Proposals by on-demand distribution

### (1) Distribution period

From Tuesday, February 25, 2025 to Friday, March 14, 2025

### (2) Distribution format

YouTube site of Aichi Prefecture, Industry and Science Technology Division (on-demand distribution)

### (3) Contents

Explanation of the call for research themes

### (4) How to watch

From February 25 (Tuesday) to March 14 (Friday), 2025, please search for "Aichi Priority Research Project 5th Term Outline Explanation Application " on the following prefectural web page "Aichi Electronic Application and Notification System" and apply.

[https://www.shinsei.e-aichi.jp/pref-aichi-u/offer/offerList\\_initDisplay.action](https://www.shinsei.e-aichi.jp/pref-aichi-u/offer/offerList_initDisplay.action)

After applying, we will contact you at the email address you applied for regarding the viewing destination.

### (5) Precautions

- Please note that on-demand distribution has a limited viewing period.
- Questions regarding the application guidelines should be submitted by e-mail by Friday, March 14.

Answers to questions will be posted on the website of the Aichi Prefecture, Industry and Science Technology Division by Monday, March 17, with the name of the organization hidden.