

2024 Core Technology International Cooperation Development (NRF&NSF Joint Research) Call For New Proposals

► Overview of Program

:: Purpose

○ (Purpose) This collaborative research opportunity focuses on **semiconductor chips** supporting communications, sensing, control, and domain-specific computing, spanning **(1) application domain** (e.g., AI, next-G wireless, healthcare, transportation, power grid); **(2) computing strategy domain** (e.g., disaggregated systems, cloud-edge-IoT continuum, joint communication/sensing/computing); and **(3) technology domain** (e.g., emerging device technologies; heterogeneous and 3D integration; thermal management; in-memory computing; CMOS+X, where X can be any emerging technologies co-integrable with CMOS at both fine and coarse granularity), among other topics. Supplemental funding requests are expected to target awards made in the following programs:

- (number of Projects) 6

:: Grant & Timeframe of Program

R&D Grant & Timeframe				Total
First year	Second year	Third year	Fourth year	36months
'24.7.~'24.12.	'25.1.~'25.12.	'26.1.~'26.12	'27.1.~'27.6.	'24.July.~ '27.June
150M KRW	300M KRW	300M KRW	150M KRW	900 M KRW

※ The support scale mentioned above is intended for South Korean research and development institutions, and must be used for the performance of research and development projects by these institutions. For information on NSF funding, refer to the NSF announcement*

*https://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf24060

► How to apply

:: (What) Upload **(1) one R&D plan file (HWP)** and **(2) one additional supporting document file (PDF)** (For joint/commissioned projects, include in the principal (unit) project's research and development plan; there is no need to submit a separate research proposal)

* The table of contents from 1. Necessity of the R&D Project to 5. Utilization and Expected Effects of the R&D Outcomes should be written in accordance with the following length based on the scale of the project:

Size of the government-supported research and development budget on a 12-month basis	Plan length based on the principal (unit) project standard
Less than 500 million won per year	30 pages

*Non-compliance with the specified page limit may result in disadvantages in the evaluation outcome

:: (Where) On IRIS, <https://www.iris.go.kr>

:: (When)

Category	Deadlines
Principal Investigator (Close date of application)	Mon, 15 th ~ Mon, 29th of April, 2024 (18:00)
Lead Research Institution review & confirmation	Mon, 15 th ~ Mon, 30th of April, 2024 (18:00)

※ Principal investigators from both countries must submit their applications in accordance with the guidelines of each country. Only those submissions received within the application deadlines of both countries will be recognized as joint applications. To search for the status of National Science Foundation (NSF) supported projects, visit: <https://www.nsf.gov/awardsearch/>

► Selection Assessment

Basic Direction of Evaluation

Expert written review of the submitted documents will be followed by an evaluative presentation.

If necessary, double the amount of support can be selected for presentation evaluation through written review. The principle is to conduct presentation evaluations, but if necessary, such as to prevent the spread of infectious diseases, it can be replaced with non-face-to-face evaluations (video evaluations, online written evaluations) (separate notice will be given if applicable). If the evaluation score is less than 60 points, the proposal will be rejected. However, if the number of submitted projects is less than the number of new projects to be selected, projects scoring less than 70 points will be rejected. No additional bonus or penalty points will be applied.

Evaluation Criteria: Presentation Evaluation (Principal Investigator's presentation and Q&A)

※ It is possible to organize evaluation committees by field and topic depending on the size of the project under evaluation and the research subject.

※ Details such as presentation time will be individually notified after finalizing the evaluation plan following the application deadline.

Evaluation Item	Sub-items and Indicators		Points
Technicality	Challenge & Creativity	Originality and creativity of the development technology	40
		Specificity and clarity of the technology development goals	
Research Capability	Capabilities of the PI & Researc teams	Excellence in research performance and capability of domestic research institutions (research team)	20
		Excellence in research performance and capability of overseas research institutions (research team)	
		Appropriateness of role distribution and promotion system between domestic and overseas research institutions	
International Cooperation	International joint cooperation strategy	Necessity and effectiveness of international cooperation	30
		Specificity and validity of the international cooperation strategy	
		Degree of cooperation foundation established and participation willingness of overseas cooperation institutions	
Spillover Effects	Spillover effects	Possibility of securing national strategic technology and technological, economic spillover effects	10
		Mutual complementarity between parties and potential for cooperation network development	

► Contact information

Inquiry	Department	Phone	E-mail
R&D Program	Semiconductor and Display Division	042-869-7862	valence@nrf.re.kr
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