



Korea becomes an associate member of Horizon Europe

Ministry of Science and ICT

Europe-Africa Cooperation Officer

Secretary Park Seok-chun





1 추진 경과

ÿ (December 2018) Proposal for Korea to become an associate member of the EU R&I program

ÿ (2022.2) Korea's letter of intent to join Horizon Europe as an associate member

ÿ (2022.3~2023.5) Horizon Europe exploratory meeting between Korea and EU

ÿ (2023.5~) Entering the main negotiation stage to join as an associate member

ÿ (2024.3.25) Negotiations for Korea's accession as an associate member concluded



참여 범위

- ÿ Associate member country researcher qualification starting from the 2025 Horizon Europe project
 - It is not possible to receive direct benefits as a third country researcher until the 2024 project.

ÿ Sign up for Pillar2 (technology development in each field to solve global problems)

- ÿ Pillar 1 and Pillar 3 will continue to be supported through the existing support system
 - EU joint research projects, etc.



HORIZON EUROPE

EURATOM

SPECIFIC PROGRAMME: EUROPEAN DEFENCE FUND

Exclusive focus on defence research & development

Research actions

Development actions

SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT' Exclusive focus on civil applications



European Research Council

Marie Skłodowska-Curie

Research Infrastructures

Pillar II
GLOBAL CHALLENGES &
EUROPEAN INDUSTRIAL
COMPETITIVENESS

Health

Clusters

- Culture, Creativity & Inclusive Society
- · Civil Security for Society
- · Digital, Industry & Space
- · Climate, Energy & Mobility
- Food, Bioeconomy, Natural Resources, Agriculture & Environment

Joint Research Centre

Pillar III
INNOVATIVE EUROPE

European Innovation Council

European innovation ecosystems

European Institute of Innovation & Technology* Fusion

Fission

Joint Research Center

WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

Widening participation & spreading excellence

Reforming & Enhancing the European R&I system

^{*} The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

Overview of 49 candidate European Partnerships

DILLAR III - Innovative Furone

European

PILLAR II - Global challenges & European industrial competitiveness

ILLAR II - Global challeng	es & European industrial co	ompetitiveness		PILLAR III - Innovative Eur	ope
CLUSTER 1: Health	CLUSTER 4: Digital, Industry & Space	CLUSTER 5: Climate, Energy & Mobility	CLUSTER 6: Food, Bioeconomy, Agriculture,	EIT	SUPPORT TO INNOVATION ECOSYSTEMS
Innovative Health Initiative	Key Digital Technologies	Clean Hydrogen	Circular Bio-based Europe	InnoEnergy	Innovative SMEs
Global Health Partnership	Smart Networks & Services	Clean Aviation	Rescuing Biodiversity to Safeguard Life on Earth	Climate	
Transformation of health systems	High Performance	Single European Sky ATM Research 3	Climate Neutral,	Digital	
Chemicals risk	Computing	Europe's Rail	Sustainable & Productive Blue Economy	Food	
assessment	European Metrology (Art. 185)	Connected and Automated	Water4All	Health	
ERA for Health	Al-Data-Robotics	Mobility (CCAM)	Animal Health & Welfare*	Raw Materials	
Rare diseases*	Photonics	Batteries	Accelerating Farming	Manufacturing	
One-Health Anti Microbial Resistance*	Made in Europe	Zero-emission waterborne transport	Systems Transitions*	Urban Mobility	
Personalised Medicine*	Clean steel – low-carbon	Zero-emission road	Agriculture of Data*	Cultural and Creative	
Pandemic Preparedness*	steelmaking	transport	Safe & Sustainable Food System*	Industries	
Co-funded or co- programmed	Processes4Planet	Built4People		CROSS-PILLARS II AND III European Open Science Cloud	
	Global competitive space systems**	Clean Energy Transition			
Institutionalised Partnerships (Ar		Driving Urban Transitions		European Open Science Or	Sud



Institutionaised partnerships / EIT KICs

Co-Programmed

^{*} Calls with opening dates in 2023-24

^{**} Calls with opening dates not before 2022





2 참여 범위 - Pillar 1 (MSCA)

division			Doctoral Networks	Postdoctoral Networks	Staff Exchanges	COFUND
Agency	Beneficiary organization		X	X	X	X
	Partner institution		0	О	(Government support)	0
		budding	О	X	0	0
individual	researcher	career	X	О	Ο	0
	Administration/Management /Technical staff		X	X	Ο	X





3 달라지는 점

ÿ Participate in assignments

- (Existing) Direct support for HE projects as a third country is not possible, member countries/associate countries

Participation is possible only as a partner in projects supported by researchers.

=> (Associate member country) can support the project as a host organization on an equal basis with member countries.

ÿ Benefit from research funds

- (Existing) Unable to receive HE research funds directly, required self-funding required => (Associate member country)

Directly from the HE budget without a separate domestic selection evaluation process

Research funding available



기대 효과

- ÿ Secure joint research opportunities with EU research institutes
- ÿ Network formation with EU researchers

(Reference) EU technology level (results of technology level assessment in 2022 (March 2024, Ministry of Science and ICT))

Total target technology: US (100, 0 years) > EU (94.7, 0.9 years) > Korea (81.5, 3.2 years)

National strategic technology: US (100, 0 years) > EU (92.3, 1.3 years) > Korea (81.7), 3.0 years)

ÿ Gain experience in multilateral research programs

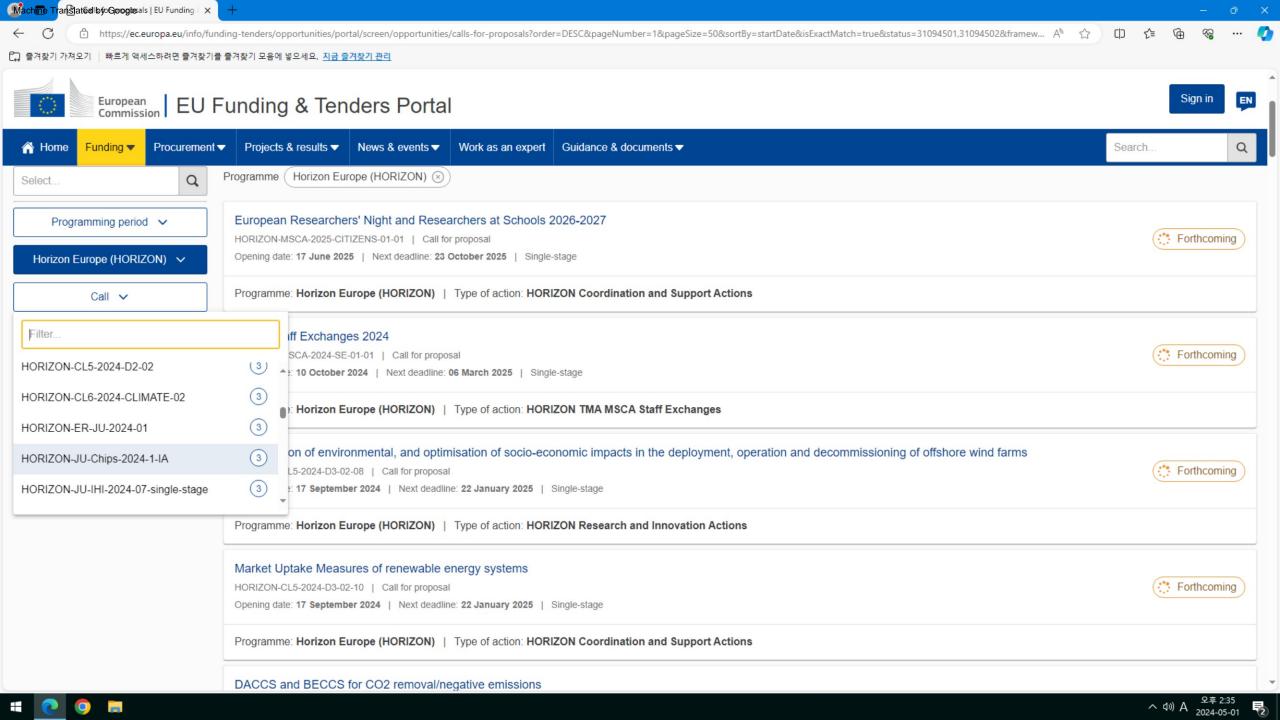


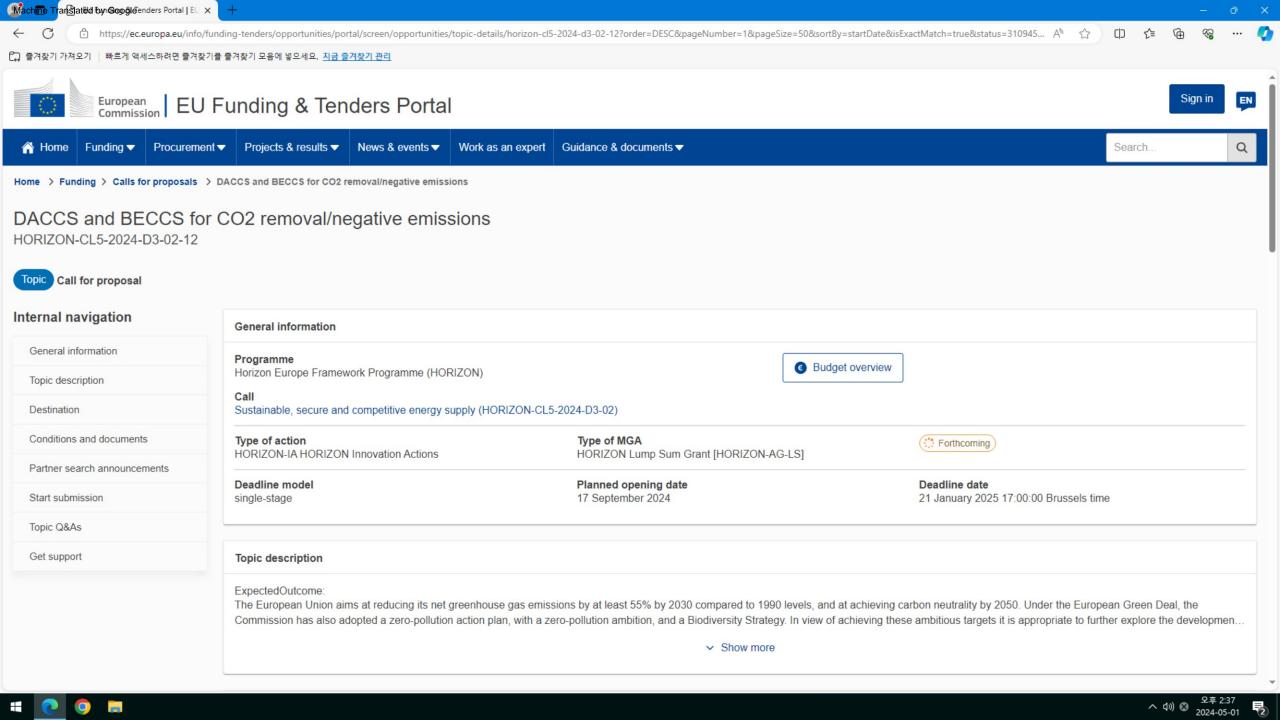


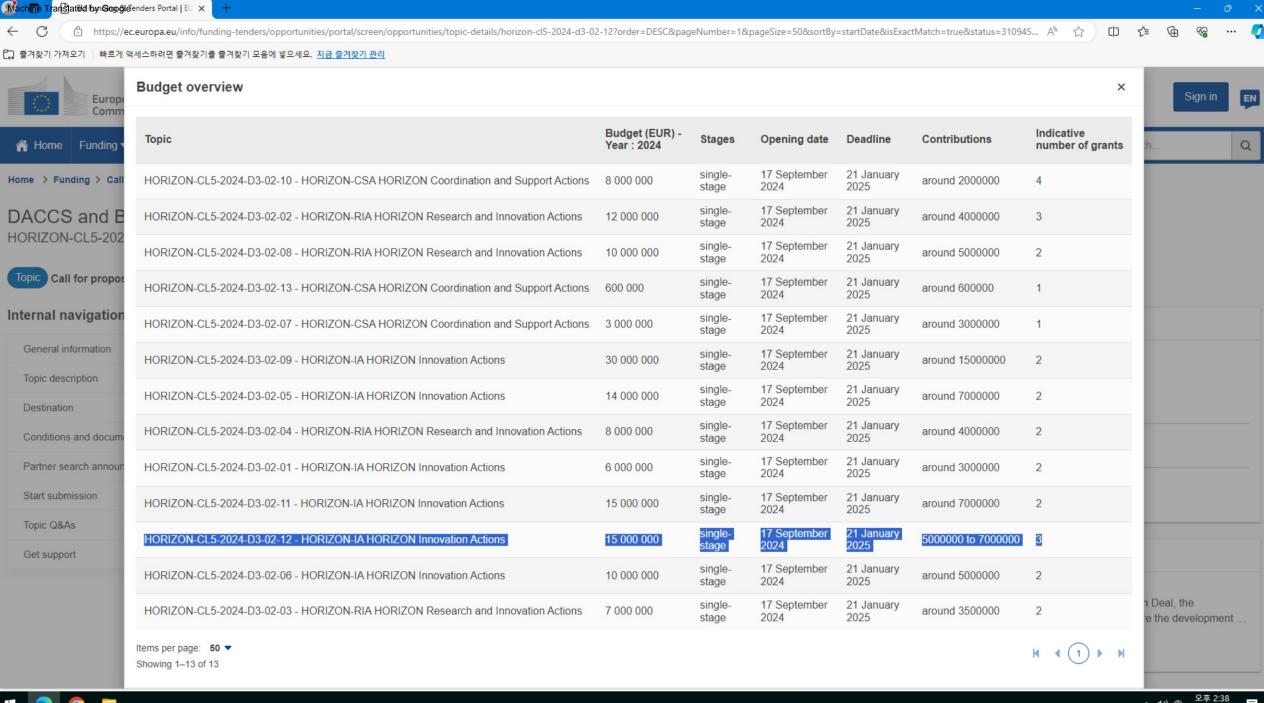
주요 문의 사항 - 과제공고

ÿ https://ec.europa.eu/info/funding-

tenders/opportunities/portal/screen/programmes/horizon

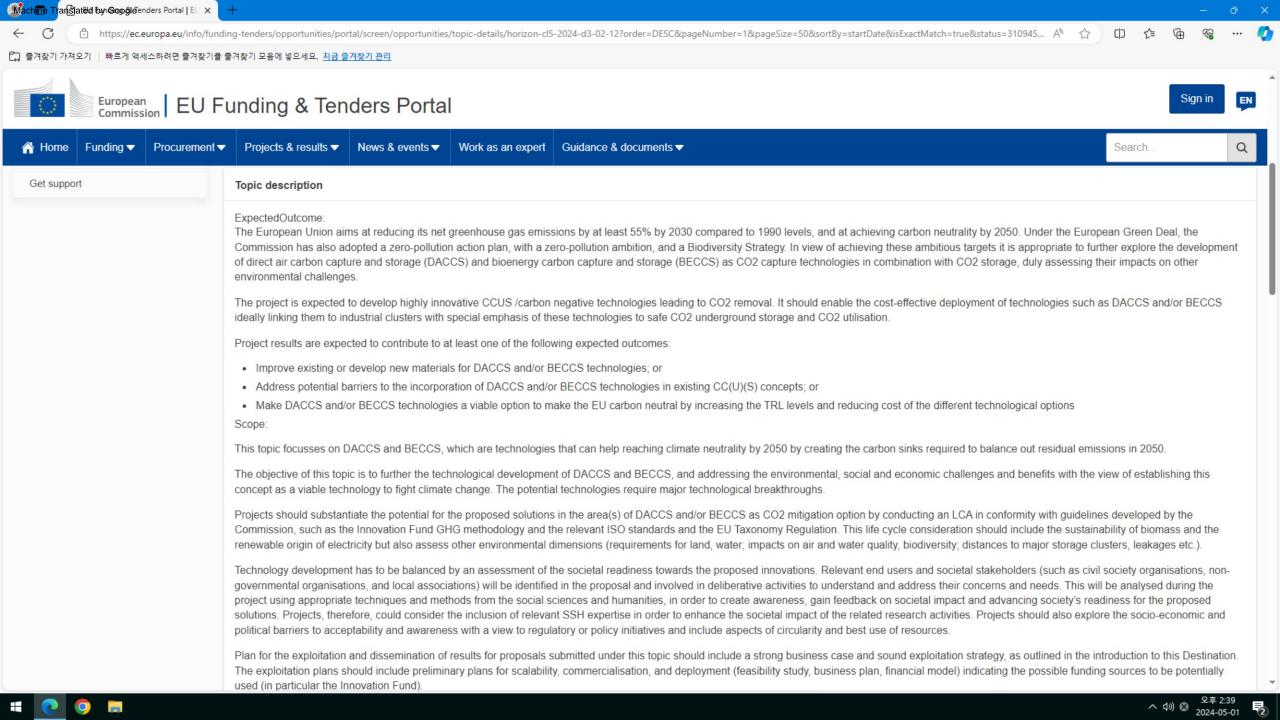


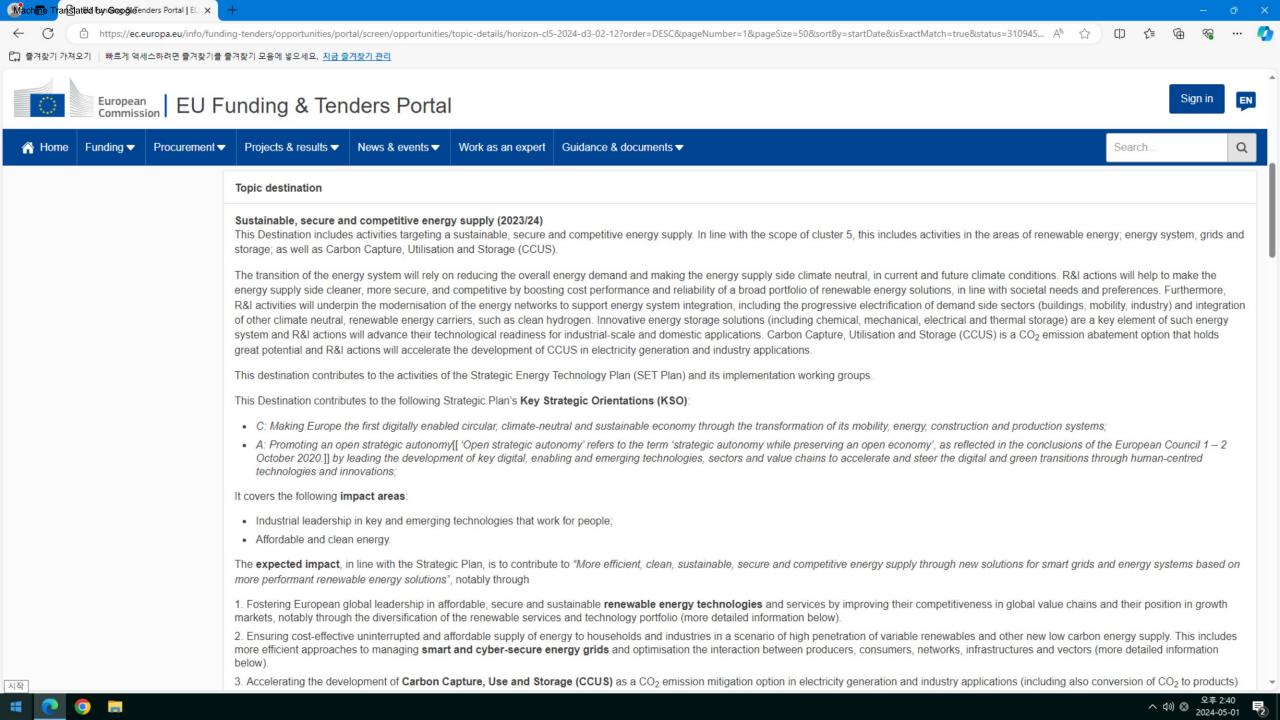


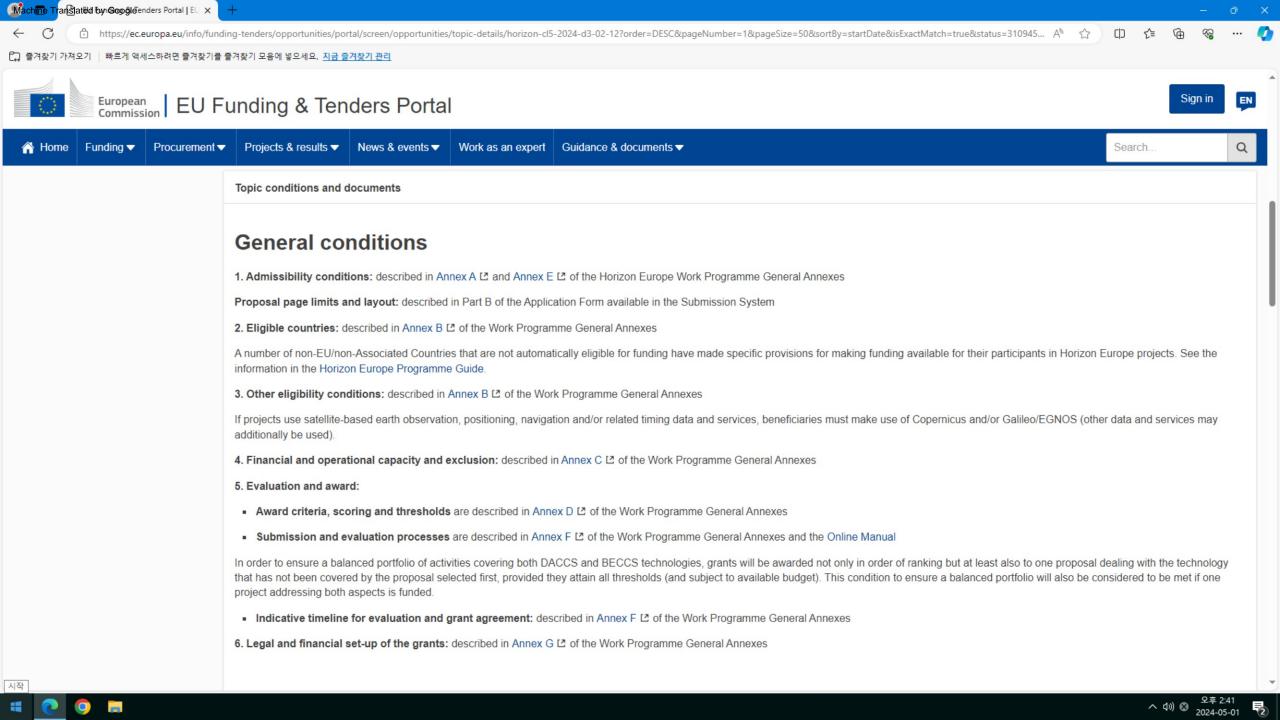


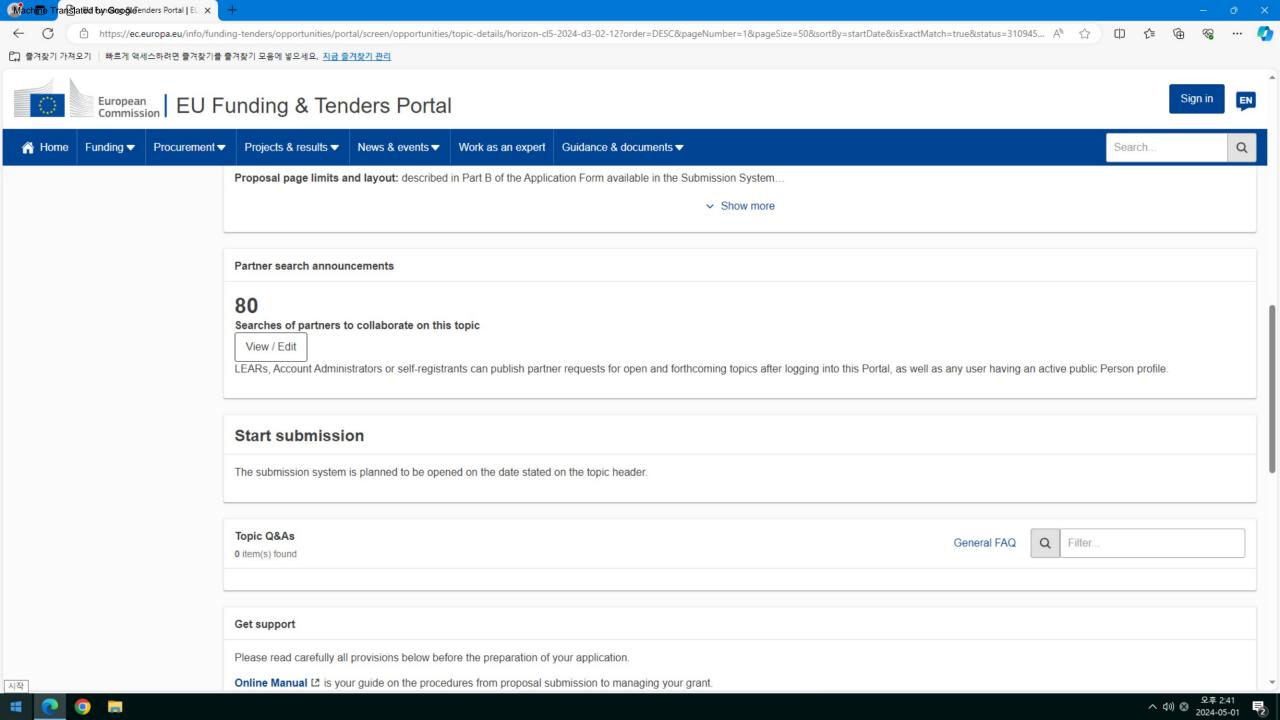
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5 주요 문의 사항 – 과제 공고

ÿ 2025-2027 Strategic Plan (second ver.)

horizon-europe-work-programme-2025_en

- 3 key strategic orientation: Green transition, Digital transition,
 A more resilient, competitive, inclusive and Democratic Europe
- 32 expected impact distributed across clusters
- 9 new co-programmed and co-funded European Partnerships
- ÿ Reviewing 2025-2027 work program

 https://research-and-innovation.ec.europa.eu/funding/fundingopportunities/funding-programmes-and-open-calls/
 horizon- europe/horizon-europe-work-programmes/feedback-opportunity-





5 주요 문의 사항 – 과제 공고

ÿ EU elections scheduled (6.4-6.6), new executive committee to be formed in November

=> The first announcement in 2025 is expected in March 2025 (normally the first announcement is in January)





5 주요 문의 사항 – 컨소시움 구성

ÿ In the case of Pillar 2, at least 3 research institutes belonging to member/associate member countries participate.

Participation is possible only in the form of a consortium that

- ÿ At least one research institute from a member country is required to participate
- ÿ Criteria for determining nationality: Country in which the corporation is established (nationality of

individual researcher) - Example 1) Branch of a German research institute established in

Korea - Korean institution - Example 2) Branch of a Korean research institute established in Germany - German institution





5 주요 문의 사항 - 분담금

- ÿ The size of the contribution is not disclosed until the final signature.
- $\ddot{\text{y}}$ However, researchers do not need to consider the cost contribution.



5 주요 문의 사항 - 지식재산권

- ÿ With regard to HE, Korean researchers have the same intellectual property rights as EU researchers. guaranteed rights to
- ÿ When forming a consortium, discussions on intellectual property rights are also held.
- ÿ Note: Must comply with domestic law in case of transfer of intellectual property rights, etc.



5 주요 문의 사항 - EU의 연구 시설

ÿ The EU operates six JRCs (Joint Research Centers) through HE - Brussels JRC,

Belgium: Headquarters, strategy/planning, coordination of JRC activities -

Gel JRC, Belgium: Standardization, reference materials, measurement

methods and tool development - Karl Sruhe JRC, Germany:

Nuclear safety and security - Ispra JRC, Italy: Resources, transportation, space, security,

energy, climate change, etc. - Petun JRC, Netherlands: Energy,

transportation, climate, nuclear power, etc. - Seville JRC, Spain: Policy establishment/development/implender

ÿ Announcement of separate research project that can utilize JRC infrastructure



5 주요 문의 사항 – 과제 기획 지원

- ÿ EU cooperation promotion: 11 tasks, 25 million won support for 12 months
- ÿ Advance network cost support for HE project planning
- ÿ Currently being announced: 5.14 ~ 7.31
- ÿ Additional selection review in the future





5 주요 문의 사항 – 표준 협약서

ÿ (Korea) Standard Agreement – (EU) Model Grant Agreement

ÿ KERC (Korea-EU Research Center) homepage

: Annotated MGA translation provided



5 주요 문의 사항 - NCP

ÿ Operation of the Horizon Europe National Contact Point (National Coordinator) system

- ÿ Main Mission
- Sharing and guiding business-related information (Informing and awareness
- raising) Supporting the participation of new researchers and institutions (Assisting,
- advising and training) Guiding related institutions and cooperation between NCPs (Signposting an



5 주요 문의 사항 - NCP

division	Field	division	Field
One	NCP Coordinator	10	Climate, Energy & Mobility
2	Legal & Financial aspects	11	Food, Bioeconomy, Natural Resources, Agriculture and Environment
3	European Research Council	12	The European Innovation Council & European Innovation Ecosystems
4	Marie Sklodowska - Curie Actions	13	Widening Participation & ERA
5	Research Infrastructures	14	Fission
6	Health	15	Fusion
7	Culture, Creativity & Inclusive Society 16		Joint Research Center
8	Civil Security for Society	17 E	uropean Institute of Innovation & Technology
9	Digital Industry & Space	18	EU Missions





6 기타 사항

ÿ Expansion of NCP (National Contact Point) support (1 -> 8)

ÿ Establishment of a dedicated organization to support domestic researchers

ÿ Request for registration in the assignment evaluator pool





7 휴먼프론티어과학프로그램(HFSP) 개요



- ♥ 1987년 G7국과 유럽연합이 프로그램 설립 추진
- ◎ 1990년 첫 HFSP 수상자 선정
- ◎ 1990년부터 2023년까지 전 세계 약 8,000명의 연구자를 지원함
 - ✓ Research Grants : 총 1,212개 팀, 4,496명의 연구자를 지원
 - ✓ Postdoctoral Fellowships: 71개국 연구자 3,476명 지원
- ◎ 수혜자 중 28명의 노벨상 수상자를 배출해, '노벨상 펀드'로 지칭됨





7 연구 그랜트 프로그램

© 연구 그랜트(Research Grants)

구분	신진 연구자 지원 (Eearly Career, EC)	프로그램 지원 (Program Grant, PG)	
사업목적	다양한 분야의 연구자 2~4인이 다대륙·다학제 공동연구팀을 구성, 융합적이고 혁신적인 접근법으로 수행하는 팀 연구 지원		
지원대상	박사학위 취득 10년 이내인 자	박사 취득 후 기간이나 경력 제한 없음	
자격요건	다대륙 및 다학제의 2~4인의 PI로 구성된 연구팀 연구 총괄 책임자는 HFSPO 회원국의 비영리기관 소속일 것		
연구기간 및 연구비	지원기간 : 총 3년 / 지원규모 : 2인(연 300K USD), 3인(연 400K USD), 4인(연 500USD)		

② 지원절차





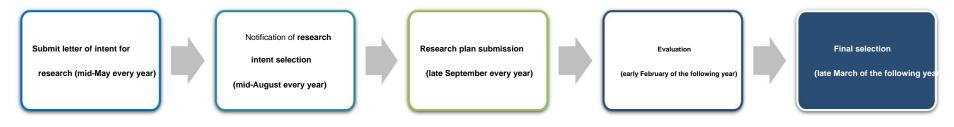


7 박사후 연수 프로그램

© 박사 후 연수(Postdoctoral Fellowships)

구분	장기연수 지원 (Long-Term Fellowships, LTF)	학제간 연수 지원 (Cross-Disciplinary Fellowships, CDF)
사업목적	경력 초기단계 연구자가 과거 수행했던 연구오	나는 다른 새로운 연구를 본국 이외 타국가에서 는 박사후 연수 프로그램
지원대상	생명과학 분야 박사학위 소지자 중, 과거와 다른 새로운 생명과학 연구 주제를 희망하는 박사 후 연수 희망자	생명과학 이외 분야(물리, 수학 등)의 박사학위 소지자 중, 생명과학 분야와 융합연구를 희망하는 박사 후 연수 희망자
자격요건	국제학술지에 제1(공동) 저자로 1편 0	이상의 논문을 게재한 박사학위 소지자
연구기간 및 연구비	지원기간 : 총 3년 / 지원규모 : 연수국에 따라 역	연 60K USD 내외 체재비/연구비/여비 차등지원

♡ 지원절차







thank you