

# The European Research Council

## Introduction to the ERC

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Head of Unit "Support to the Scientific Council" (ERC)

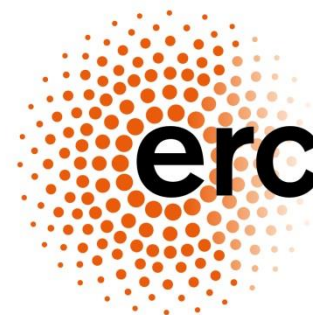
and

Hyong-Ha KIM (KRISS)

ERC NCP (Korea)

08/10/2024

ERC Webinar for Korea 2024



**European Research Council**

Established by the European Commission

# ERC is part of Horizon Europe

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**EUR 16 billion**  
ERC budget in Horizon Europe



**17%**  
of the entire  
Horizon Europe budget



European Research Council  
Established by the European Commission



# ERC in figures



Over **13,000**  
top researchers funded since  
the ERC creation in 2007



Over **220,000**  
articles from ERC projects published  
in scientific journals



Over **90,000**  
researchers and other professionals  
employed in ERC research teams



Over **900** research institutions hosting  
ERC grantees – universities, public or  
private research centres in the EU or  
Associated Countries



Over **2,400**  
patents and other IPR applications  
generated by ERC funding



**89**  
nationalities of  
grant holders



Over **400**  
start-ups identified as founded  
or co-founded by ERC grantees



**14** Nobel Prizes, **6** Fields Medals, **11** Wolf Prizes  
and other prizes awarded to ERC grantees

# About the ERC

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## Scientific governance

- Independent Scientific Council with 22 members including the ERC President, with full authority over strategy
- Supported by a Dedicated Implementation Structure, the ERC Executive Agency

## Scientific freedom

- Scientific excellence as the sole criterion
- Support to the individual scientist – *no consortia*
- No predetermined subjects – “*bottom-up*”
- Support for frontier research in all fields of science and humanities
- International peer-review

# ERC basics

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European Research Council  
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INDIVIDUAL RESEARCHERS  
FROM ALL OVER THE WORLD  
**LONG TERM  
GRANTS**  
TO PIONEERING PROJECTS  
IN ANY FIELD OF FRONTIER RESEARCH



Life Sciences



Physical Sciences and Engineering



Social Sciences and Humanities



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# ERC funding schemes

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## Starting Grants

starters (2-7 years after PhD) up to € 1.5 Million  
for 5 years



## Consolidator Grants

Consolidators (7-12 years after PhD) up to € 2 Million  
for 5 years



## Advanced Grants

track-record of significant research achievements  
up to € 2.5 Million  
for 5 years



## Synergy Grants

2 – 4 Principal Investigators up to € 10.0 Million for 6  
years  
1 PI can be based outside EU/Associated  
Countries



## Proof-of-Concept

bridging gap between research - earliest stage of marketable innovation  
lump sum €150,000 for ERC grant holders

# ERC funding schemes

## Evaluation

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# Excellence

is the sole evaluation criterion

### Excellence of the Research Project

- Ground-breaking nature
- Ambition
- Feasibility of the research project

### Excellence of the Principal Investigator

- Intellectual capacity
- Creativity
- Commitment

Evaluation done by an international pool of experts (18% not based in the European Union or Associated Countries)



# ERC funding schemes

Opportunities for researchers based in third-countries: StG, CoG and AdG

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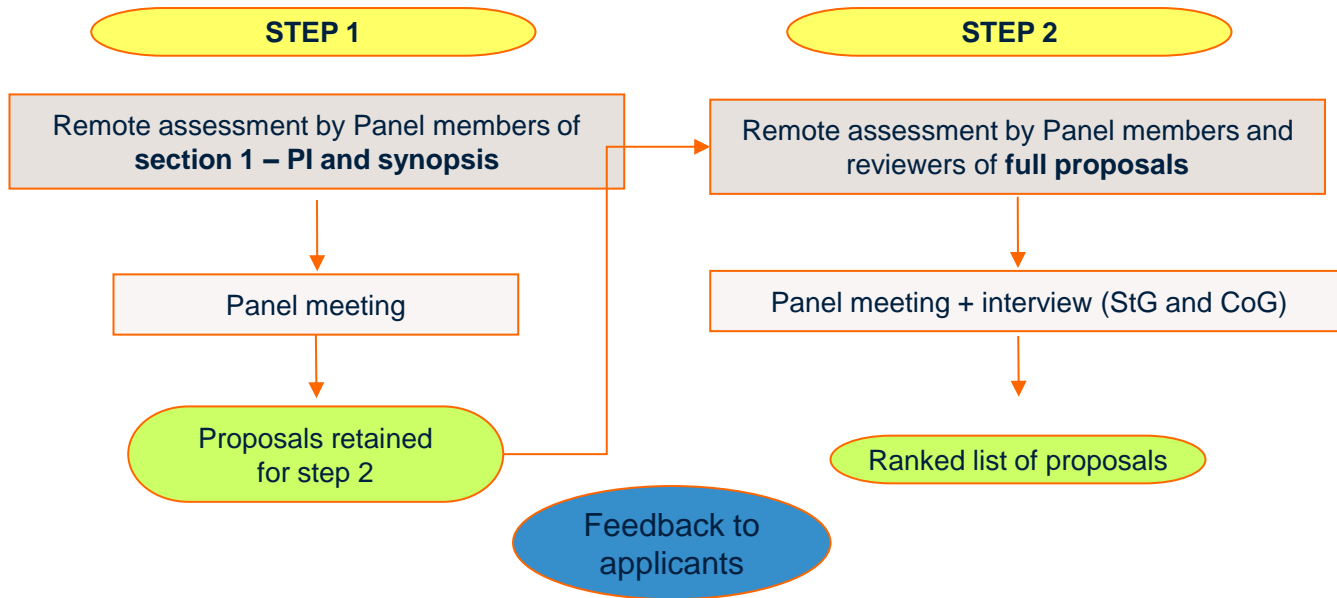
## No nationality constraint

- Host institution must be located in the European Union or in any of the Associated Countries to Horizon Europe
- Grantee can keep affiliation with home institute outside Europe (“significant part” of work time in Europe, at least 50%)
- Additional “start-up” funding for scientists moving to Europe (EUR 1 Million for Starting, Consolidators and Advanced grantees)



# ERC funding schemes

## Evaluation process StG, CoG and AdG



- Right balance between generalist + specialized review
- Appropriate treatment of interdisciplinary proposals
- Good cost-benefit ratio

# ERC funding schemes

## Opportunities for researchers based in Third Countries: SyG

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### No nationality constraint

The same conditions as in the other funding schemes but...

One of the PIs might be engaged to a host institution located outside the European Union or in any of the Associated Countries to Horizon Europe with no time commitment in Europe required.

# ERC funding schemes

## Synergy grants: commitment and funding

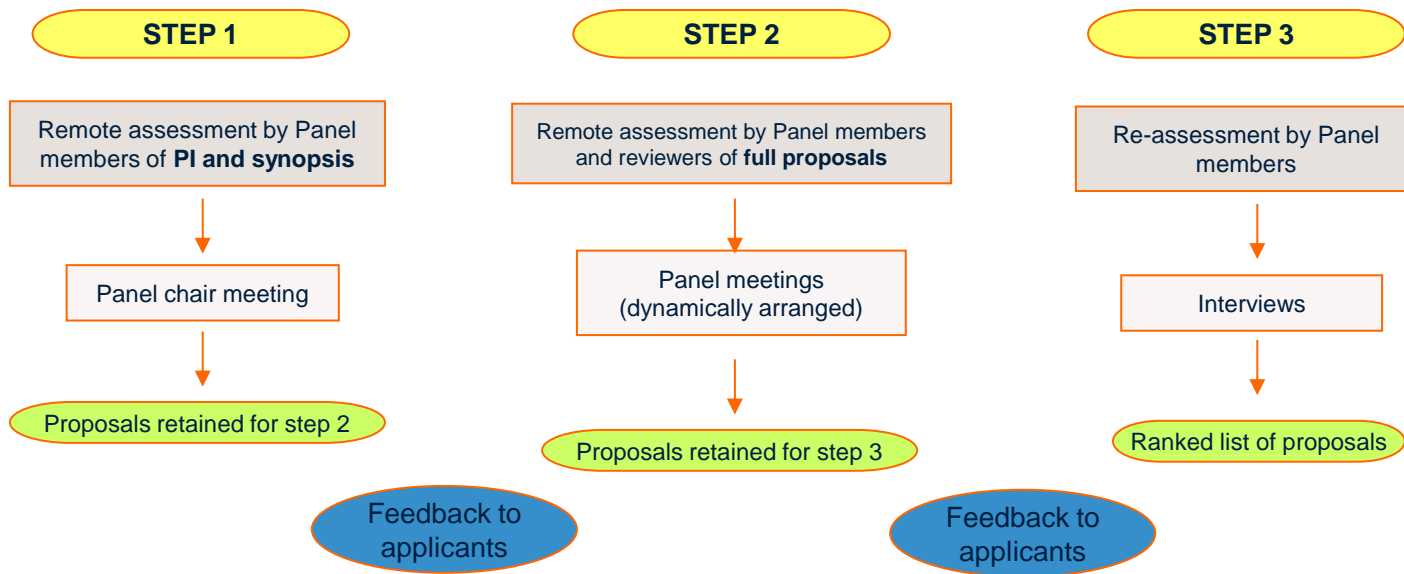
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- PIs must be strongly committed to the project and engage in a genuine collaboration.
- One of the PIs will act as 'Corresponding PI'
- PIs may apply from any country, institution worldwide.
- PIs must devote at least 30% of their working time on the project
- All but at most one PI (who cannot be the corresponding PI) is expected to devote 50% of their working time in an EU Member State or Associated Country.
- Attractive, long-term funding - maximum grant of 10 million € for a period of up to six years. Up to 4 million € additional.



# ERC funding schemes

## Synergy grants: evaluation process



\* Dynamically arranged



- Right balance between generalist + specialized review
- Appropriate treatment of interdisciplinary proposals
- Good cost-benefit ratio



# Korean participation

Principal investigators funded: 54 nationalities among Third Country nationals

	Starting	Consolidator	Advanced	Grand Total
<b>Grand Total</b>	<b>710</b>	<b>297</b>	<b>229</b>	<b>1236</b>
USA	218	88	142	448
Canada	73	40	20	133
China	77	23	1	101
India	58	27	3	88
Russia	50	19	12	81
Australia	36	26	17	79
Japan	23	13	10	46
Argentina	18	7	2	27
New Zealand	14	7	6	27
Ukraine	18	7	1	26
Brazil	16	6	1	23
Chile	12	2		14
Iran	13	1		14
Mexico	12		1	13
<b>Korea</b>	<b>7</b>	<b>4</b>	<b>1</b>	<b>12</b>
Singapore	7	5		12
Taiwan	5	3		8
South Africa	3	1	2	6
<b>Others</b>	<b>50</b>	<b>18</b>	<b>10</b>	<b>78</b>

Over 8% of all ERC grants go to principal investigators of Third Country nationality



# Korean participation

## Participation of Korean nationals in ERC main calls

Submitted

	Life Sciences	Physical Sciences and Engineering	Social Sciences and Humanities	Grand Total
<b>FP7</b>	<b>12</b>	<b>17</b>	<b>11</b>	<b>40</b>
Starting	12	13	10	35
Consolidator		3		3
Advanced		1	1	2
<b>H2020</b>	<b>20</b>	<b>43</b>	<b>12</b>	<b>75</b>
Starting	11	27	10	48
Consolidator	8	12	1	21
Advanced	1	4	1	6
<b>HE</b>	<b>4</b>	<b>21</b>	<b>10</b>	<b>35</b>
Starting	3	13	7	23
Consolidator	1	6	2	9
Advanced		2	1	3
<b>Grand Total</b>	<b>36</b>	<b>81</b>	<b>33</b>	<b>150</b>

Funded

	Life Sciences	Physical Sciences and Engineering	Grand Total
<b>FP7</b>	<b>2</b>	<b>1</b>	<b>3</b>
Starting	2		2
Advanced		1	1
<b>H2020</b>	<b>4</b>	<b>3</b>	<b>7</b>
Starting	2	1	3
Consolidator	2	2	4
<b>HE</b>	<b>1</b>	<b>1</b>	<b>2</b>
Starting	1	1	2
<b>Grand Total</b>	<b>7</b>	<b>5</b>	<b>12</b>



# Korean participation

## Participation of Korean nationals in Synergy calls

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Proposals submitted with 1 PI hosted in a Korean institution:

2019: 0

2020: 1 (unsuccessful)

2022: 0

2023: 0

2024: 1 (still in the evaluation process)



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# Korean participation

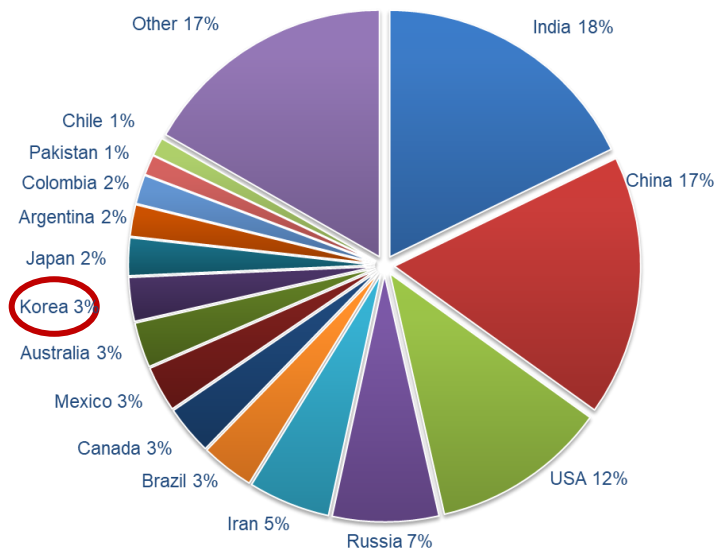
## Participation of researchers with Korean nationality as team members

Nationality of ERC project teams (PIs not included)  
Analysis of 1,901 Starting and Advanced Grants

EU: 71%  
Assoc. Countries: 10%  
non-EU/Associated Countries:  
17%  
unknown: 2%

In all ERC grants  
+ 10,000 non-ERA team members  
most from  
China, US, India, and Russia

Estimate: approx. 300 team members  
with Korean nationality are engaged in  
ERC projects





# Implementing Arrangement Basics

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## Research visits to ERC projects

Implementing Arrangement for the cooperation between Korea-based scientists and EU/AC-based scientists through research visits to ERC funded projects (since 2013).

### Actors:

- Ministry of Science and ICT (MSIT) Career Researchers and Young Researchers
  - Single long-term visits of 6 -12 months
  - Multiple short-term visits are allowed only for MSIT Career Researchers
- ERC Principal Investigator
  - Hosts the Korea-based scientist as a member of the research team



# Implementing Arrangement Basics

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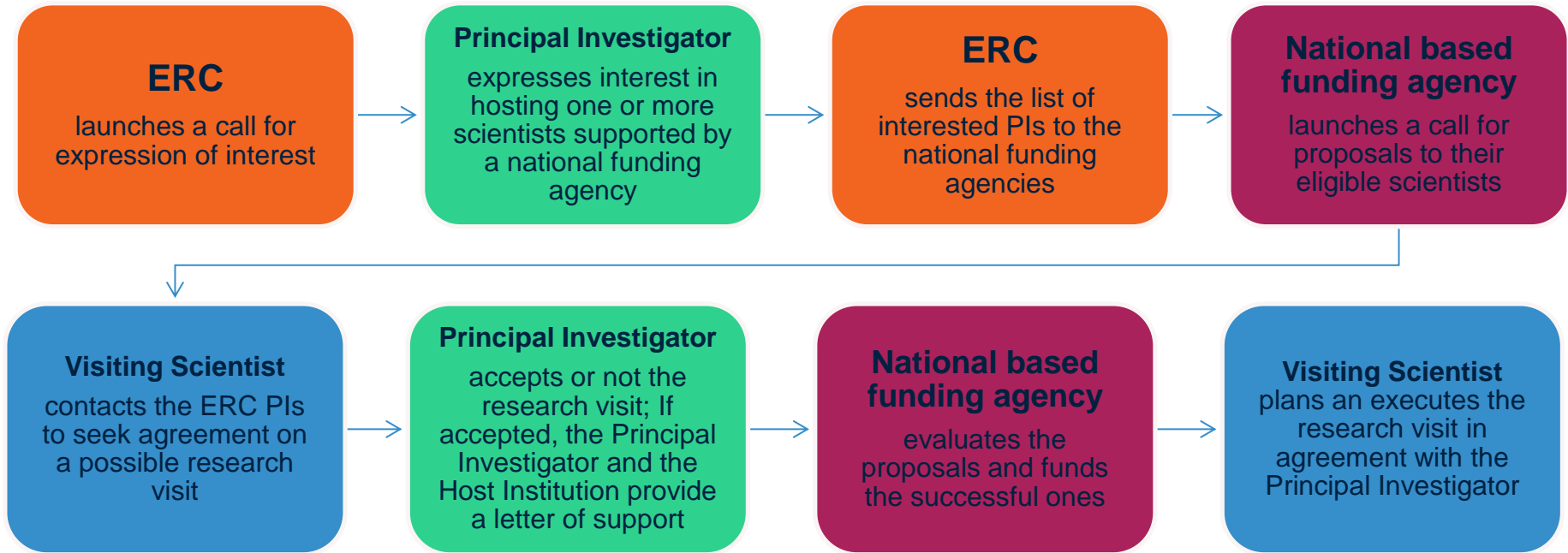
## Research visits to ERC projects

Implementing Arrangement for the cooperation between Korea-based scientists and EU/AC-based scientists through research visits to ERC funded projects (since 2013).

### Funding:

- MSIT: covers travel expenses of Career and Young Researchers as well as health insurance (for 6 months or longer visits, the travel expenses of the accompanying family members can be covered )
- ERC project: covers subsistence costs on a per diem basis in accordance with the applicable Host Institution regulations as well as any other eligible costs incurred directly related to the ERC-funded project

# Implementing Arrangement Procedure



*Action taken by*

ERC

ERC Principal Investigator

Funding agency

Visiting scientist



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# Implementing Arrangement Participation

## ERC PIs Participation 2012-2023

Number of ERC grantees expressed interest to host non-European researchers												
Country	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
USA	789	676	372	507	380	312	423	730	766	748	850	931
South Korea PI		492	351	358	319	256	341	570	658	599	689	763
China				402	293	249	332	566	620	562	627	662
Japan JSPS				453	345	287	377	634	697	654	751	839
Argentina				378	296	245	322	542	617	577	674	732
South Africa				358	279	240	312	539	612	570	660	707
Brazil					303	249	329	545	616	575	665	758
Mexico					294	242	316	534	601	566	668	714
Canada					353	289	392	660	714	666	783	856
India SERB Early						224	301	514	569	531	626	666
Japan JST							370	625	698	645	732	825
Australia NHMRC							369	610	668	624	716	805
South Korea PhD							325	541	636	581	684	751
India SERB PhD							276	468	543	491	593	619
Australia ARC								647	705	667	768	845
Singapore								584	667	600	698	754
Japan AMED									648	579	675	750
India ICSSR									569	528	618	658
Thailand											600	645
Average	789	584	362	409	318	259	342	582	645	598	688	752



# Implementing Arrangement Participation

## MSIT Researchers visits to ERC projects

Number of visiting researchers by year and by country												
Country	2012	2013	2014	2015	2016	2017	2018	2019+	2020+	2021*	2022**	Total
Japan AMED											4	4
India ICSSR												0
Singapore								3				3
Australia ARC								2	1			3
Japan JST							6	2			3	11
Australia NHMRC												0
India SERB						5						5
Canada					3	3	1					7
Mexico					5	4						9
Brazil					12	22	37		30	25		126
Argentina				5	5					5		15
China				11	12	7	8	22		20	20	100
Japan JSPS				3	13	2	11	13	3	15		60
South Africa				5	2	1	2			1	3	14
Republic of Korea		31	28	30	30	35	32					186
USA	12	23		11			3	18	15	32	26	140
<b>Total</b>	<b>12</b>	<b>54</b>	<b>28</b>	<b>65</b>	<b>82</b>	<b>79</b>	<b>100</b>	<b>60</b>	<b>49</b>	<b>98</b>	<b>56</b>	<b>683</b>



\* Preliminary data for 2018



# Implementing Arrangement

## Outputs

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- Additional visits in both directions
- Joint research launched
- Scientific publications & Patent applications
- Scientific talks and presentations
- Search for additional joint funding programs
- Other collaborations

\*Survey & Data Compilation: Courtesy of NRF Advanced Research Program Team

# Implementing Arrangement

## Additional support from NRF

- Secondment program to ERC funded labs partly supported by NRF
- Can utilize its own budget to send researchers to these labs

전체	신규사업공모	사업진행안내	일반공지사항
<p>2023년도 한-EU(ERC)연구자교류협력 공모</p> <p>담당부서   개인연구지원팀   담당자   김지수B   연락처   042-869-6811   등록일   2023.04.07   조회수   1,808</p> <p>첨부파일    01. 2023년도 한-EU(ERC) 연구자교류협력사업 공고문.hwp   02-01. (제출서류1) 2023년도 한-EU(ERC) 연구자교류협력사업 방문연구 신청서.hwp   02-02. (제출서류2) 개인정보 및 과세정보의 제공활용 동의서, 제3자 제공 동의서.hwp   03. 2023년도 한-EU(ERC) 연구자교류협력사업 방문연구비 지급기준.xlsx   04. ERC연구자 명단(공지용).zip   05. 2023년도 한-EU(ERC) 연구자교류협력사업 별첨(매뉴얼).zip</p> <p>과학기술정보통신부 공고 제 2023-0413호</p> <p style="text-align: center;"><b>2023년도 한-EU(ERC)연구자교류협력 공모</b></p> <p style="text-align: center;">한-EU(ERC)간 체결된 약정에 따라 추진하는 연구자 국제교류협력(공동연구) 프로그램을 아래와 같이 공고합니다.</p> <p style="text-align: right;">2023년 4월 7일</p>			

과학기술정보통신부 공고 제 2023-0413호

### 2023년도 한-EU(ERC) 연구자교류협력 공모

한-EU(ERC) 간 체결된 약정에 따라 추진하는  
연구자 국제교류협력(공동연구) 프로그램을 아래와 같이 공고합니다.

2023년 4월 7일

<주무부처> 과학기술정보통신부 장관 이종호  
<전문기관> 한국연구재단 이사장 이광복

#### 1. 사업개요

사업목적

- 국내 연구자의 EU 연구팀 방문연구를 지원하여 한-EU간 우수 연구자 네트워크 확대
- \* 추진근거: 한-EU간 우수연구자 교류 이행약정(2013.11.)
- EU(ERC)와 국제공동연구를 통해 국내 기초연구 역량 강화 및 세계적 수준의 연구 성과 창출
- \* ERC(European Research Council): EU 소속 독립기구로서 2007년에 설립되어 "Horizon Europe (2021~2027)" 프로그램을 통해 유럽지역 우수 연구팀 지원(참고: <http://erc.europa.eu>)

지원대상 및 지원규모

지원 대상	방문 지원금	방문기간	지원규모
과학기술정보통신부 소관 개인기초연구(중견 및 우수신진)를 수행 중인 연구책임자, 참여연구자(공동), 참여연구자(일반)	최대 3천만원 (항공료 포함)	1개월 이상 최대 12개월	00명 내외

#### 2. 방문 대상

- EU(ERC) 과제를 수행 중인 해외 연구자

# Thank You!

More information: [erc.europa.eu](https://erc.europa.eu)



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