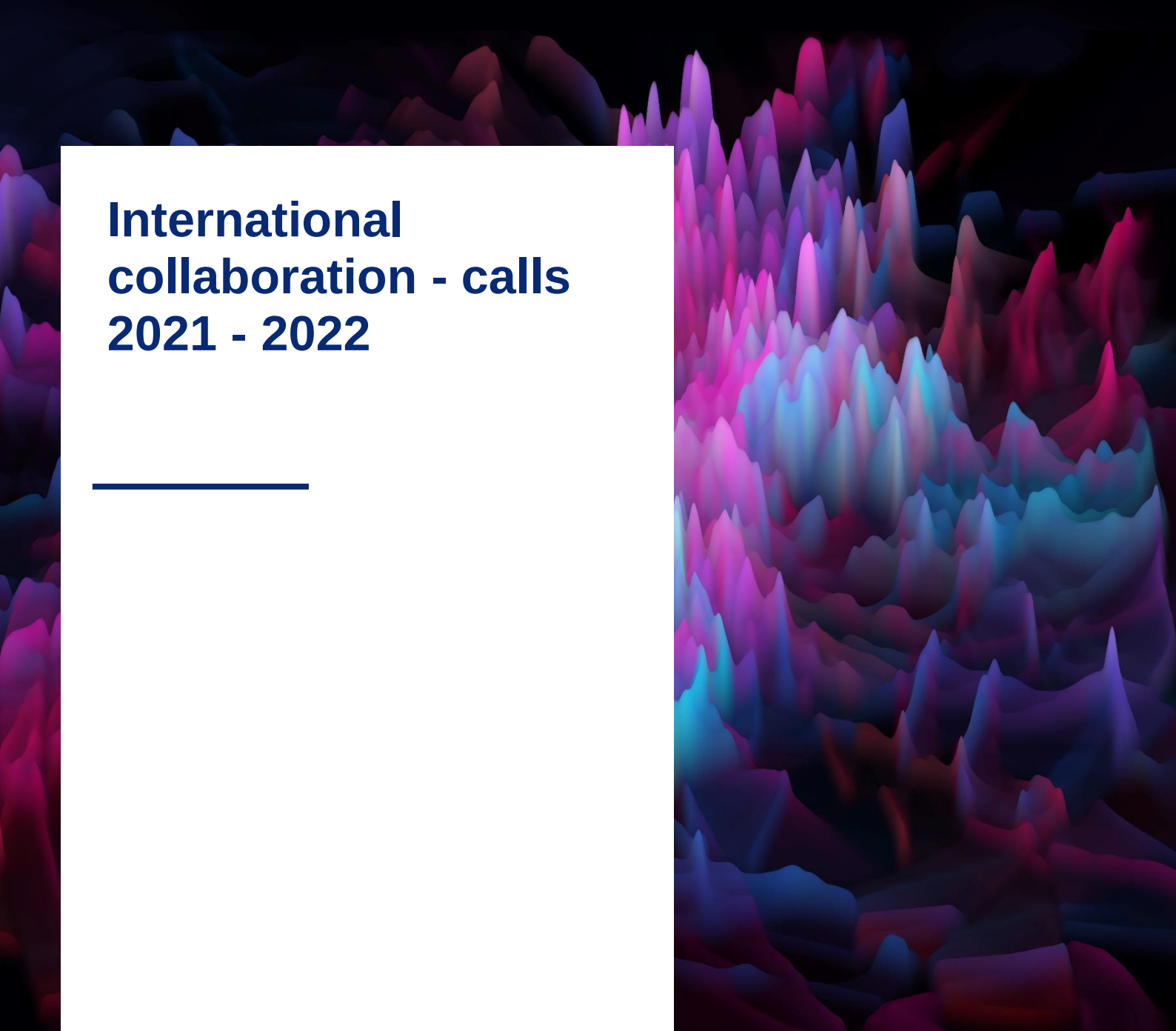




International collaboration - calls 2021 - 2022

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1. Horizon Europe 2021 – 2022

1.1 Pillar I – Excellent Science

1.1.1 European Research Council

[European Research Council](#) funds frontier research conducted by excellent scientists (Principal Investigators/PI) and their teams. Projects are financed up to 100% of eligible costs and can be from any field of research. Research must be conducted in a public or private research organization (Host Institution/HI). It could be the HI where the applicant already works, or any other HI located in one of the EU Member States or Associated Countries.

	Opening	Deadline	Budget (mln EUR)
Starting Grants			
ERC-2023-StG Researchers of any nationality with 2-7 years of experience since completion of PhD	12.07.2022	25.10.2022	
Consolidator Grants			
ERC-2023-CoG Researchers of any nationality with 7-12 years of experience since completion of PhD	28.09.2022	02.02.2023	
Advanced grants			
ERC-2023-AdG Active researchers who have a track-record of significant research achievements in the last 10 years.	08.12.2022	23.05.2023	
Synergy grants			
ERC-2023-SyG A group of two to maximum four Principal Investigators (PIs) working together and bringing different skills and resources to tackle ambitious research problems	13.07.2022	08.11.2022	

1.1.2 Marie Skłodowska – Curie Actions

Main principles of MSCA actions are: excellence, mobility - researchers who receive funding have to move from one country to another, and bottom-up approach – researchers can be from any field of science. Researchers are also strongly encouraged to move between sectors and disciplines to acquire new knowledge, skills and competences, and develop their research career.

MSCA include:

- ✓ MSCA Doctoral Networks – doctoral programmes supporting research in academia and other sectors;
- ✓ MSCA Postdoctoral Fellowships – support for career development of individual researchers and promotion of excellence,
- ✓ MSCA Staff Exchanges – international, intersectoral and interdisciplinary knowledge collaboration through academic and technical staff exchange,
- ✓ MSCA COFUND – support for regional, national, and international programmes through co-funding,
- ✓ MSCA and Citizens - actions bringing science closer to the public with the European Researchers' Night.

	Opening	Deadline	Budget (mln EUR)
MSCA Postdoctoral Fellowships 2022			
TOPIC ID: HORIZON-MSCA-2022-PF-01-01	13.04.2022	14.09.2022	
European Fellowships			218,45
Global Fellowships			38,55
MSCA Doctoral Networks 2022			
TOPIC ID: HORIZON-MSCA-2022-DN-01-01	03.05.2022	15.11.2022	427,27
MSCA Staff Exchanges 2022			
(HORIZON-MSCA-2022-SE-01)	06.10.2022	08.03.2023	77,5
MSCA COFUND 2021			
TOPIC ID: HORIZON-MSCA-2021-COFUND-01-01	12.10.2021	10.02.2022	89
MSCA COFUND 2022			
TOPIC ID: HORIZON-MSCA-2022-COFUND-01-01	11.10.2022	09.02.2023	95

1.1.3 Research Infrastructures.

Integrated and inter - connected world-class research infrastructures, including e-infrastructures. The Integrating Activities (IA) mechanism also offers access to infrastructures – conducting research in top European laboratories. The IA projects cover the costs of the access, but also the costs of travel and accommodation in the foreign institution (up to 3 months).

[Call 2022](#)

Access to infrastructures – transnational/virtual

The action covers costs of stay (from 1 week up to 3 months) or access to e-infrastructures.

Offers are available on the RICH project website: http://www.rich2020.eu/tas_calls

1.2. Pillar II - Global challenges and European industrial competitiveness

Projects in pillar II are carried out by international consortia. Consortia are eligible to participate in actions if they include at least one independent legal entity established in a Member State and at least two other independent legal entities, each established in different Member States or Associated Countries.

The main types of activities that are financed under Pillar II calls are:

Research and innovation actions (RIA) — activities that aim primarily to establish new knowledge or to explore the feasibility of a new or improved technology, product, process, service or solution. This may include basic and applied research, technology development and integration, testing, demonstration and validation of a small-scale prototype in a laboratory or simulated environment,

+altered or improved products, processes or services. These activities may include prototyping, testing, demonstrating, piloting, large-scale product validation and market replication,

Coordination and support actions (CSA) — activities that contribute to the objectives of Horizon Europe. They generally exclude R&I activities.

The funding rates for the above mentioned actions are 100% of eligible costs (70% for for-profit organizations in case of IA). Indirect costs are 25% flat-rate of the total eligible direct costs (excluding eligible direct costs for subcontracting, financial support to third parties and any unit costs or lump sums which include indirect costs).

More types of actions can be found [here](#).

The main objective of Pillar II is to find solutions for the biggest contemporary challenges Europe and the World have to face. The challenges have been divided into six areas called clusters:

1. **Health**
2. **Culture, Creativity and Inclusive Society**
3. **Civil security and Society**
4. **Digital, Industry and Space**
5. **Climate, Energy and Mobility**
6. **Food, Bioeconomy, Natural Resources, Agriculture and Environment.**

1.2.1 Health

Actions in cluster 1, according to [Work Programme 2021-2022](#) focus on the following destinations:

- Staying healthy in a rapidly changing society
- Living and working in a health-promoting environment
- Tackling diseases and reducing disease burden
- Ensuring access to innovative, sustainable and high-quality health care
- Unlocking the full potential of new tools, technologies and digital solutions for a healthy society
- Maintaining an innovative, sustainable and globally competitive health industry

1.2.2 Culture, Creativity and Inclusive Society

Actions in cluster 2, according to [Work Programme 2021-2022](#) focus on the following destinations:

- DEMOCRACY and GOVERNANCE – [call 2022](#)
- EUROPEAN CULTURAL HERITAGE and the CULTURAL and CREATIVE INDUSTRIES – [call 2022](#)
- SOCIAL and ECONOMIC TRANSFORMATIONS – [call 2022](#)

1.2.3 Civil security and Society

Actions in cluster 3, according to [Work Programme 2021-2022](#) focus on the following destinations:

- Better protect the EU and its citizens against Crime and Terrorism – [call 2022](#)
- Effective management of EU external borders - [call 2022](#)
- Increased Cybersecurity – [call 2022](#)
- Resilient Infrastructure – [call 2022](#)
- Disaster-Resilient Society for Europe – [call 2022](#)
- Strengthened Security Research and Innovation – [call 2022](#)

1.2.4 Digital, Industry and Space

Actions in cluster 4, according to [Work Programme 2021-2022](#) focus on the following destinations:

- CLIMATE NEUTRAL, CIRCULAR AND DIGITISED PRODUCTION
- INCREASED AUTONOMY IN KEY STRATEGIC VALUE CHAINS FOR RESILIENT INDUSTRY
- WORLD LEADING DATA AND COMPUTING TECHNOLOGIES
- DIGITAL AND EMERGING TECHNOLOGIES FOR COMPETITIVENESS AND FIT FOR THE GREEN DEAL – [call 2022](#)
- OPEN STRATEGIC AUTONOMY IN DEVELOPING, DEPLOYING AND USING GLOBAL SPACE-BASED INFRASTRUCTURES, SERVICES, APPLICATIONS AND DATA
- A HUMAN-CENTRED AND ETHICAL DEVELOPMENT OF DIGITAL AND INDUSTRIAL TECHNOLOGIES – [call 2022](#)

1.2.5 Climate, Energy and Mobility

Actions in cluster 5, according to [Work Programme 2021-2022](#) focus on the following destinations:

- Climate sciences and responses for the transformation towards climate neutrality
- Cross-sectoral solutions for the climate transition – [call 2022](#)
- Sustainable, secure and competitive energy supply – [call 2022](#)
- Efficient, sustainable and inclusive energy use – [call 2022](#)
- Clean and competitive solutions for all transport modes
- Safe, Resilient Transport and Smart Mobility services for passengers and goods – [call 2022](#)

1.2.6 Food, bioeconomy, Natural Resources, Agriculture and Environment

Actions in cluster 6, according to [Work Programme 2021-2022](#) focus on the following destinations:

- Biodiversity and ecosystem services
- Fair, healthy and environment-friendly food systems from primary production to consumption
- Circular economy and bioeconomy sectors
- Clean environment and zero pollution
- Land, ocean and water for climate action
- Resilient, inclusive, healthy and green rural, coastal and urban communities
- Innovative governance, environmental observations and digital solutions in support of the Green Deal

Missions

A mission is a portfolio of actions across disciplines intended to achieve a bold and inspirational and measurable goal within a set timeframe, with impact for society and policy making as well as relevance for a significant part of the European population and wide range of European citizens. They have ambitious goals and will deliver tangible results by 2030.

There are five mission areas:

1. **Cancer** – [calls](#)
2. **Adaptation to Climate Change** - [calls](#)
3. **Restore our Oceans and Waters** - [calls](#)
4. **Climate Neutral and Smart Cities** - [calls](#)
5. **Soil Deal for Europe** - [calls](#)

European Partnerships

Horizon Europe introduces a more strategic and impact-driven approach to partnerships. Partnerships rely on common efforts from the MSs, industry, academia and other private and public stakeholders to tackle the most pressing global challenges.

Types of partnerships in Horizon Europe:

1. **Co-funded** European Partnerships are **Public – Public partnerships** (EC – Financing agency from MS/AC), based on joined programmes (ERA-NETs, EJP, FET Flagships model in H2020)
2. **Co-programmed** European Partnerships are **Public – Private partnerships** (EC – associations/industry partners) based on Memoranda of Understanding (cPPP model in H2020), – [open calls](#), [calls 2022](#)
3. **Institutionalised** European Partnerships are **Public – Private partnerships (PP** EC – industry partners or PPP EC – industry – MS/AC, based on art. 185 or 187 of TFEU. EIT – KIC are also institutionalized partnerships
 - [calls Global Health Partnership](#)
 - [calls KDT Partnership \(IA\)](#)
 - [calls KDT Partnership \(RIA\)](#)
 - [calls EURO HPC Partnership](#)
 - [calls Clean Hydrogen](#), [calls Clean Hydrogen - 2](#)
 - [calls SESAR](#), [calls SESAR Industry](#)
 - [calls Clean Aviation](#)
 - [calls Europe's Rail](#)

1.3 Pillar III – Innovative Europe

Actions funded under Pillar III should lead to breakthrough discoveries which will create new markets and innovation-friendly ecosystems.

1.3.1 European Innovation Council (EIC)

EIC supports innovations with potential breakthrough and with scale-up potential that may be too risky for private investors.

Programmes:

- **Pathfinder**
'EIC Pathfinder Open', open to proposals in any field of science, technology or application without predefined thematic priorities; 'EIC Pathfinder Challenges' to support proposals within a predefined thematic area and addressing specific objectives.
- **Transition** – maturation and validation of novel technology from the lab to the relevant application environments (based on EIC Pathfinder, FET (Future and Emerging Technologies) or European Research Council (ERC) Proof of Concept projects' results)
- **Accelerator** – The EIC Accelerator supports companies (principally SMEs, including start-ups) to scale up high impact innovations with the potential to create new markets or disrupt existing ones. The EIC Accelerator provides a unique combination of funding from EUR 0.5 to EUR 17.5 million and Business Acceleration Services
- **Prizes** – promotion of breakthrough innovations

Pathfinder, Transition and Accelerator programmes have both OPEN and CHALLENGES formats.

	Opening	Deadline	Budget (mln EUR)
Pathfinder Open			
Pathfinder Challenges			
Carbon dioxide and nitrogen management and valorisation			
Mid to long term and systems integrated energy storage			
Cardiogenomics			
Towards the Healthcare Continuum: technologies to support a radical shift from episodic to continuous healthcare	15.06.2022	19.10.2022	167
DNA-based digital data storage			
Alternative approaches to Quantum Information Processing, Communication, and Sensing			
Accelerator OPEN			
<u>HORIZON-EIC-2022-ACCELERATOROPEN-01</u>			
Accelerator Challenges			
<u>EIC Accelerator Challenge: Technologies for Open Strategic Autonomy</u>	01.03.2022	23.03/15.06/ 05.10.2022	1168
<u>EIC Accelerator Challenge: Technologies for 'Fit for 55'</u>			
Transition OPEN			

[HORIZON-EIC-2022-TRANSITIONOPEN-01](#)

Transition Challenges

[EIC Transition Challenge: Green digital devices for the future](#)
[EIC Transition Challenge: RNA-based therapies and diagnostics for complex or rare genetic diseases](#)

01.03.2022

04.05/28.09
2022

131,36

[EIC Transition Challenge: Process and system integration of clean energy technologies](#)

1.3.2 European Innovation Ecosystems

Connecting with regional and national innovation actors.

	Opening	Deadline	Budget (mln EUR)
SCALE UP			
Elevating the scalability potential of European business (2022.2) (HORIZON-EIE-2022-SCALEUP-02)	21.06.2022	04.10.2022	5
CONNECT			
Interconnected Innovation Ecosystems (2022.2) (HORIZON-EIE-2022-CONNECT-02)	14.06.2022	27.09.2022	12,5

1.3.3 European Institute of Innovation and Technology (EIT)

EITs are based on the concept of bringing together key institutions from three sectors – research, education and industry for the common goal of supporting innovations. There are eight Knowledge and Innovation Communities (KICs) which focus on selected global challenges:

[EIT Climate-KIC](#) – climate innovations

[EIT Food](#) – farm-to-fork deliveries

[EIT InnoEnergy](#) – sustainable energy

[EIT RawMaterials](#) – raw materials

[EIT Digital](#) – digital Europe

[EIT Health](#) – healthy Europe

[EIT Manufacturing](#) – competitive manufacturing in Europe

[EIT Urban Europe](#) – smart and integrated transport

EIT Culture and Creativity – [call for new KIC](#)

1.4 Widening participation and strengthening the European Research Area.

1.4.1 Widening Participation and Spreading Excellence

The component of Horizon Europe Programme aimed at less R&I advanced countries (Widening countries) eligible for hosting the co-ordinator of widening actions:

- [Teaming, Twinning, ERA Chairs, Excellence Hubs](#) – actions supporting R&I development and excellence of the institutions involved in the projects
- [COST](#) - there is a possibility to take part in a [new action](#) or join an [existing action](#) . Additionally, individuals can become [external experts](#).
- European Excellence Initiative for Higher Education
- Brain circulation – fellowships in widening countries
- Hop-on Facility – possibility for institutions from Widening Countries to join already selected collaborative R&I actions (in pillar II and Pathfinder calls)

Widening Countries

Bulgaria, Croatia, Cyprus, Czechia, Estonia, Greece, Hungary, Latvia, Lithuania, Malta, Poland, Portugal, Romania, Slovakia, Slovenia and all Associated Countries with equivalent characteristics in terms of R&I performance (Albania, Bosnia & Herzegovina, Kosovo, Montenegro, North Macedonia, Serbia, Turkey, Armenia, Georgia, Moldova, Morocco, Tunisia, Ukraine, Faroe Islands) and the Outermost Regions (defined in Art. 349 TFEU).

	Opening	Deadline	Budget (mln EUR)
Fostering balanced brain circulation – ERA Fellowships			
Fostering balanced brain circulation – ERA Fellowships (HORIZON-WIDERA-2022-TALENTS-04)	29.06.2022	14.09.2022	8
Hop On Facility			
Hop On Facility (HORIZON-WIDERA-2022-ACCESS-07)	27.01.2022	10.11.2022	40

1.4.2 Strengthening the European Research Area.

This destination is to support efforts to reform and enhance the EU R&I system and reform ERA (European Research Area) and it is built around four strands corresponding to the four objectives set out in the ERA Communication „A new ERA for Research and Innovation” ([COM/2020/628 final of 30.09.2020](#)):

1. Prioritize investments and reforms
2. Improve access to excellence
3. Translate R&I results into the economy
4. Deepen the ERA

[Calls 2022](#)

2. EURATOM – Euratom Research and Training Programme

The programme funds nuclear research.

3. Research Fund for Coal and Steel

The Research Fund for Coal and Steel (RFCS) provides funding for high quality research, pilot and demonstration projects, which support the competitiveness and sustainability of future low emission industries in line with the European Green Deal.

The programme covers core, new sustainable and low-carbon steelmaking and finishing processes; advanced steel grades and applications, quality control, conservation of resources and circular economy, health and safety at work, environmental protection by reduction of emissions from coal mines in transition and steel production, supporting the just transition of coal sector and regions.

	Opening	Deadline	Budget (mln EUR)
RFCS-2023			
	06/2022	09/2022	

4. LIFE

LIFE co-funds research and innovation projects connected to the protection of environment.

The programme includes two priorities :

1. Environment

- [Nature and biodiversity](#)
- [Circular economy and quality of life](#)

2. Climate

- [Climate change mitigation and adaptation](#)
- [Clean energy transition](#)

LIFE funding rate is 60% of eligible costs. The budget of the programme in 2021-2024 is 2,8 mld EUR.

5 . CEI – Central European Initiative

[CEI](#) is a regional intergovernmental forum of 17 Member States in Central, Eastern and South-Eastern Europe. It fosters European integration and sustainable development through regional cooperation. CEI work is focused on achieving two main goals: Green Growth & Just Societies.

CEI members are: Albania, Belarus (suspended), Bosnia and Hercegovina, Bulgaria, Croatia, Czech Republic, Montenegro, North Macedonia, Moldova, Poland, Romania, Serbia, Slovakia, Slovenia, Ukraine, Italy and Hungary.

[CEI OPEN CALLS](#)

6.NCBR The National Centre for Technology and Development – international calls funded nationally

	Opening	Deadline	Budget (mln)
NCBR			
<u>EUREKA Danube Call 2022</u> Applicant should focus on improvement of production technologies, development of an new product or service. EUREKA Danube Call is the initiative of countries associated in EUREKA: Albania, Austria, Croatia, Montenegro, France, Germany, Poland, Slovakia and Hungary	01.03.2022	30.06.2022	5 PLN
<u>II INNOGLOBO</u> International R&D cooperation in various fields with countries with diplomatic relations with Poland (excluding countries with which NCBR organizes regular bilateral calls)	01.03.2022	30.06.2022	10 PLN
<u>M.ERA-NET 3 Call</u> The aim is to fund ambitious transnational RTD projects addressing materials research and innovation including materials for batteries and low carbon energy technologies.	15.03.2022	15.06.2022	2 EUR
<u>VIII Poland-Israel call</u> R&D projects focused on innovative products.	29.03.2022	29.06.2022	2 PLN
<u>X Poland – Taiwan call</u> R&I projects focused on energy efficiency, material engineering, smart transport, cybersecurity and space.	6.04.2022	15.06.2022	5,8 PLN

<u>EUREKA Photonics Call 2022 Mirror Group/Photonics21</u> R&D projects focused next generation integrated photonic sensing. The call is the initiative of countries associated under Mirror Group/Photonics21: Austria, Belgium (Flanders), Denmark, Finland, France, Ireland, Germany, Poland and Switzerland.	14.04.2022	27.06.2022	5 PLN
<u>III Poland – China call</u> R&D projects supporting bilateral cooperation	10.05.2022	30.06.2022	3 EUR
<u>EJP SOIL (II call 2022)</u> The main aim is to build a sustainable and integrated European agricultural soils ecosystems	28.04.2022	14.09.2022	0,6 EUR
<u>ERA-NET CO-FUND ICT-AGRI-FOOD (II call 2022)</u> ERA-NET ICT-AGRI-FOOD supports usage of ICT technologies in European food systems	02.05.2022	15.08.2022	0,6 EUR
<u>KDT Call 2022</u> The main aim of the partnership is development of electronic industry in EU.	03.05.2022	22.09.2022	1,5 EUR
<u>EIG CONCERT-Japan call 9</u> European Interest Group (EIG) CONCERT-Japan is an international initiative supporting cooperation in science, technology and innovations between European countries and Japan. International consortia should include at least three institutions: one from Japan and two from different European countries.	09.05.2022	18.07.2022	0,8 EUR
<u>EUREKA 2022</u> The aim of EUREKA is to boost European industrial competitiveness. Projects beneficiaries can be SMEs, large companies and research institutions.	23.05.2022	07.10.2022	5 PLN
<u>ERA-MIN3: Joint Transnational Call 2023</u> The call will finance research in the field of mineral resources management.	07.12.2022		

7.NCN National Science Centre – international calls funded nationally

	Opening	Deadline	Budget (mln)
NCN			
Weave-Unisono cooperation with research teams from one or two of the following countries: Austria, Czech Republic, Slovenia, Switzerland, Germany, Luxembourg, Belgium – Flanders and Poland		Depending on the country of the Lead Agency	30 PLN
M.ERA-NET3 Call 2022 Research projects in the field of materials for energy; Innovative surfaces, coatings and interfaces; High performance composites; Functional materials; New strategies for advanced material-based technologies in health applications; Materials for electronics.	16.03.2022	15.06.2022	1 EUR

Annex

Work Programme 2021 – 2022

HE and Euratom Work Programme on Horizontal Expenditure 2021-2022

1. General introduction v3.0

2. Marie Skłodowska-Curie Actions v1.0

3. Research Infrastructures v3.0

4. Health v3.0

5. Culture, creativity and inclusive society v2.0

6. Civil Security for Society v2.0

7. Digital, Industry and Space v4.0

8. Climate, Energy and Mobility v2.0

9. Food, Bioeconomy, Natural Resources, Agriculture and Environment v2.0

10. European Innovation Ecosystems (EIE) v1.0

11. Widening participation and strengthening the European Research Area v2.0

12. Missions v2.0

13. General Annexes v1.0

EIC Work Programme 2021

ERC Work Programme 2022

Information Package – Research Fund for Coal and Steel

Call 2021 – Information Package

Support from the Ministry for Education and Science

Premia na Horyzoncie 2 (only for projects funded under Horizon 2020 programme)