

UNIVERSITAT de BARCELONA

Àrea de Ciències i Enginyeries

Bosch i Gimpera

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School on transferable skills: managing, entrepreneurial and IPR

"How to prepare scientific proposals (international competitive calls)"

Armando J Palomar

International Research Advisor

Area of Sciences and Engineering, University of Barcelona

Friday, 06/06/2025

MWGaiaDN: School on transferable skills - How to prepare scientific proposals (P1.- Introduction)

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School on transferable skills: managing, entrepreneurial and IPR

Stories

SW (project manag.)

KTT

Research proposals ?

	Monday 2/JUN	Tuesday 3/JUN	Wednesday 4/JUN	Thursday 5/JUN	Friday 6/JUN
9:00 - 9:30					
9:30 - 10:00		Success stories (T1)	Software project managing (T2)	Transfer / KTT (T3)	How to prepare scientific projects (T4)
10:00 - 10:30					research proposals
10:30 - 11:00					
11:00 - 11:30		Coffee break	Coffee break	Coffee break	Coffee break
11:30 - 12:00					
12:00 - 12:30		Foundations of Financial Planning & Analysis (B2)	Project Management: challenges, skills & tools (B3)	Intellectual Property Rights (B4)	How to prepare scientific projects II (T4)
12:30 - 13:00					research proposals
13:00 - 13:30					
13:30 - 14:00					
14:00 - 14:30	Business Foundations: Innovation & Entrepreneurship/ How to start a Business (B1)	Lunch break	Lunch break	Lunch break	
14:30 - 15:00					
15:00 - 15:30	Self Awareness & Personal Branding (Getting to know oneself (W B1))	Creative Problem Solving to generate new business ideas (Workshop B2)	Marenostrum Visit & Team building Activity in Barcelona	Developing your communication skills (Workshop B3)	
15:30 - 16:00					
16:00 - 16:30					
16:30 - 17:00					
	Claudio Cruz (StartUp)	J. Portell, Ma. Minguà, Roger Mor	Francisco Vilardell (EMV)	Albert Cirera (UB)	Armando J. Palomar
	Elena Perinador (StartUp)	Jaume Agerich (UB - Ficos)	Mac Àmbit (freelance)	Sancho Mera (FEG)	Armando J. Palomar
		Adriana Espinet (StartUp)		Joanna Pouset (Dermium, Impact)	

Entrepreneurship

Financial

Project management

IPR

Personal Branding

New business ideas

Communication

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Researcher: competences and skills

https://research-and-innovation.ec.europa.eu/system/files/2023-04/ec_rtd_research-competence-presentation.pdf

7 Competence Areas, 38 Competences

- All competences are equally important & interrelated
- Competences can be acquired via dedicated training, on-the-job-training, peer-to-peer learning, coaching and mentoring
- Each stakeholder can use the Framework as a starting point to address its own needs
- Researchers need to develop competences in all 7 areas, but should not acquire the same or the highest level of proficiency for all competences

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Researcher: competences and skills

<https://ec.europa.eu/er-talent-platform/>

ResearchComp

The European Competence Framework for Researchers

<https://european-research-area.ec.europa.eu/>

<https://european-research-area.ec.europa.eu/horizon-europe-support-research-careers>

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Researcher: competences and skills

The **Vitae Researcher Development Framework (RDF)** is structured into 4 domains covering the knowledge, behaviours and attributes of researchers. Within each of the domains there are 3 sub-domains and associated descriptors. It sets out the wide-ranging knowledge, intellectual abilities, techniques and professional standards expected to do research, as well as the personal qualities, knowledge and skills to work with others and ensure the wider impact of research.

Vitae is a non-profit programme, part of the Careers Research & Advisory Centre (CRAC) Ltd, with over 50 years' experience of enhancing the skills of researchers.

<https://www.vitae.ac.uk/researchers-professional-development/about-the-vitae-researcher-development-framework/developing-the-vitae-researcher-development-framework>

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Researcher: competences and skills

<https://agaur.gencat.cat/en/internacional/suport-a-investigador/>

Undertaking a successful and productive postdoc role is a crucial step towards an independent research career. This diagram offers some thoughts an emerging researcher might consider and weigh up, as they ponder the type of scientific career that is best suited to them.

"Words of Advice: choosing the right lab for your post-doctoral fellowship"
Trapani J.A., Voskoboinik I.

Personal traits of a good PI

1. Intellectual independence
2. Being a doer/risk taker
3. Creativity/initiative
4. Ability to debate, but see both sides
5. Excellent communicator
6. Personal ambition
7. Loyalty/fairness to colleagues

Pros of taking on research leadership

1. Freedom of choosing your own research directions
2. Building your own lab/ team of colleagues and taking responsibility for your staff/students

Cons of taking on research leadership

1. Time-consuming/highly competitive grant funding
2. Lack of financial security (unless funded internally)
3. Stress - publish or perish
4. Difficult to maintain work/life/family balance

Useful steps in the postdoc to lab head transition

1. Softer a broad research experience/knowledge base
2. Learn how to collaborate productively - give and take
3. Obtain experience in student and/or junior staff supervision
4. Propose and deliver a new initiative
5. Apply for independent funding (even a small grant)
6. Take every opportunity to give a presentation or public lecture

ON THE PATH TO INDEPENDENCE

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Researcher: competences and skills (training)

Programa de formació per a joves investigadors/es de la UB

COORDINACIÓ: XEQU VALLERÀ, TERESA PACEI I XAVIER TESTAR

MÓDUL 4: QUÈ FER DESPRÉS DEL DOCTORAT?
4 D'ABRIL DE 2025
LLOC: FACULTAT D'ECONOMIA I EMPRESA, EDIFICI DIAGONAL 698, AULA 1025
IDIOMA D'IMPARTICIÓ: CASTELLÀ

16 - 16.30 h. Doctorat-se a la UB: com arribar al final del procés d'obteneció de la tesi doctoral?
Martí Soler, director de l'Escola de Doctorats

16.30 - 16.45 h. Carrera professional dels investigadors.
Joan Andreu Rosas, Facultat de Dret
Joan Ferrer, Facultat de Ciències
Joan Gual, Facultat de Belles Arts

16.45 - 17 h. Valor social del títol de doctor de la UB.
Sonia Barrio, Dra. en Psicologia
Marta Llorens, Dra. en Biomedicina
Pau Colomer, Dr. en Física
Anna Riera, Dra. en Informàtica i Comunicació

17 - 18.00 h. El paper social i polític.
Albert Cerdà, Facultat de Filosofia

<https://www.ub.edu/dp/web/es/node/1810>

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Researcher: competences and skills (training)

TECHNICAL WRITING AND SCIENTIFIC COMMUNICATION FOR PHD STUDENTS IN ENGINEERING AND APPLIED SCIENCES (GROUP B)

FORMADOR
Iain Robinson
Instructor in Technical Writing and Scientific Communication

THIS COURSE IS ADDRESSED TO
PhD Students in Engineering and Applied Sciences

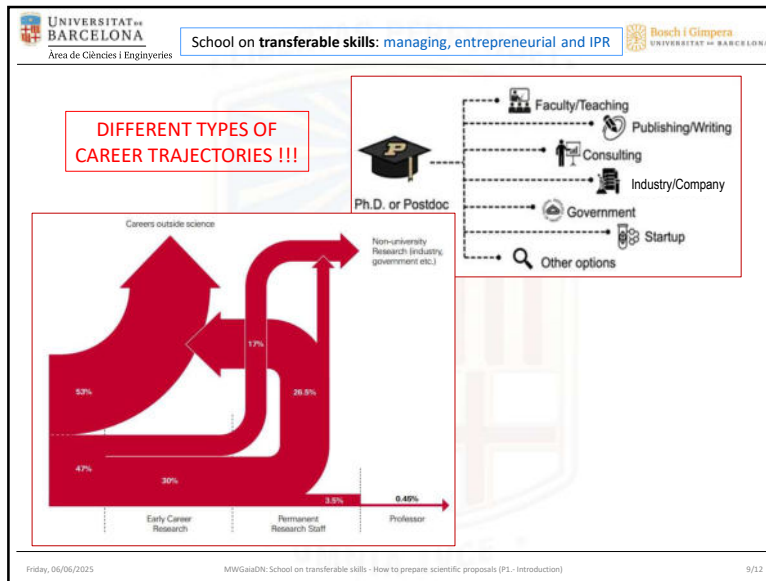
TEACHING STRATEGY
The workshop will be organized into eight two-hour sessions and will adopt a task-based, genre approach to the process and products of technical writing (specifications, research papers and scientific posters) and scientific communication (presentations, conference papers).

MODULE DESCRIPTION- AIMS

1. To provide an insight into the requirements of both written and oral communication in science, in general, and the communication needs of Engineering and Applied Sciences.
2. To provide students with experience of the process of understanding research and writing research papers in Engineering and Applied Sciences.
3. To provide students with experience of the process of understanding research writing and designing Effective Media presentations, scientific posters and delivering conference papers in Engineering and Applied Sciences.
4. To help the students with abstracting the results and conclusions in the research papers, scientific posters and conference papers of Engineering and Applied Sciences.
5. To provide students with the writing skills to produce clear, well-structured and concise documents (both research papers and posters).
6. To provide students with the oral presentation skills to produce clear, well-structured and concise presentations in Engineering and Applied Sciences.

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Q's to participants (bespoke useful session)

EXPERIENCE (9/13):	
NO (very little ; little)	5 (2 ; 2)
KNOWLEDGE (9/13):	
NO (except MSCA)	9
INTERESTS (9/13):	
Objectives	4
Comm./Dissem. (Open Science)	3
Strategy/Gral.	3
Work-plan (Methodology)	3
CV Career-track	2
Budget, Diversity, Gender, Impact	1

"Learning by doing" (practice)

FUNDING:

- Introduction to "Horizon Europe" (main traits & opportunities)

PROPOSAL:

- Objectives & Work-plan (Methodology)
- CV Career-track (Comm./Dissem., Open Science)

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Session (unique): here and now

Content (info)

Exercise (practice)

Knowledge

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Thank you
Gràcies
Gracias

Armando J Palomar
International Research Advisor
a.palomar@ub.edu

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School on transferable skills: managing, entrepreneurial and IPR


“How to prepare scientific proposals (international competitive calls)”

Armando J Palomar
 International Research Advisor
 Area of Sciences and Engineering, University of Barcelona


Friday, 04/06/2025

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The European Union (Budget and Research)



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<https://commission.europa.eu>

<https://op.europa.eu/en/publication-detail/-/publication/d3e77637-a963-11eb-9585-01aa75ed71a1/language-en>


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[illegible]



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The European Union (Budget and Research)



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“The EU’s 2021-2027 long-term budget and NextGenerationEU”

Heading 1: Single Market, Innovation and Digital... 149.5 (+11.5)

- Research & Innovation 86
- Horizon Europe 2
- Research, Innovation and Training Programme 2
- ITER 2

European Strategic Investments

- InvestEU 759
- Connecting Europe Facility 759
- Digital Europe Programme 759

Single Market

- Single Market Programme 15
- EU Anti-Fraud Programme 15
- Cooperation in the field of taxation (FISCALS) 15
- Cooperation in the field of customs (CUSTOMS) 15

Space

- European Space Programme 15

Heading 2: Cohesion and Values... 426.7 (+76.5)

Regional Development & Cohesion

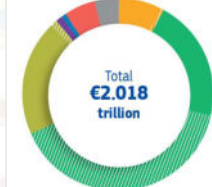
- European Regional Development Fund (ERDF) 226
- Cohesion Fund (CF) 48
- REACT-EU 48
- Support to the Turkish Cypriot community 48

Recovery and Resilience

- Recovery and Resilience Facility (RRF) (NGU) 0.9
- Technical Support Instrument 0.9
- Protection of the Euro Against Counterfeiting 0.9
- Union Civil Protection Mechanism (resEU) 0.9
- Erasmus 2.5

Investing in People, Social Cohesion & Values

- European Social Fund 99
- Erasmus+ 99
- European Solidarity Corps 99
- Justice Programme 99
- Citizens, Equality, Rights and Values Programme 99
- Creative Europe 99



Total
€2.018
trillion

Heading 3: Natural Resources & Environment... 401 (+18.5)

Agriculture & Maritime Policy

- European Agricultural Guarantee Fund (EAGF) 87.5
- European Agricultural Fund for Rural Development (EAFRD) 6
- European Maritime, Fisheries and Aquaculture Fund 6
- Environment & Climate Action 5.5
- Programme for the Environment and Climate Action (LIFE) 5.5
- Just Transition Fund 5.5

Heading 4: Migration & Border Management... 25.7

Migration

- Asylum, Migration and Integration Fund 25.7

Border Management

- Integrated Border Management Fund 25.7

Heading 5: Security & Defence... 14.9

Security

- Internal Security Fund 14.9
- Nuclear Decommissioning (Lithuania) 14.9
- Nuclear Safety and Decommissioning 14.9

Defence

- European Defence Fund 8

Heading 6: Neighbourhood & the World... 110.6

External Action

- Global Europe: Neighbourhood, Development and International Cooperation Instrument 110.6
- Humanitarian Aid 110.6
- Consolidating Foreign and Security Policy 110.6
- Overseas Countries and Territories 110.6

Pre-Accession Assistance


- Pre-Accession Assistance 110.6

European Public Administration... 82.5

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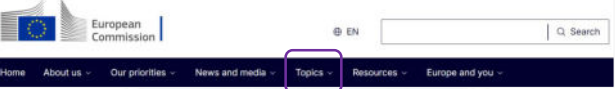
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The European Union (**Budget and Research**)



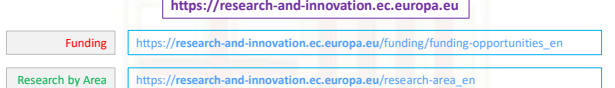
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European Research & Innovation Programmes (*International competitive calls for funding*)




The screenshot shows the European Commission website. The 'Topics' menu item is highlighted with a red box. Below the navigation bar, two links are highlighted with red boxes:

- <https://research-and-innovation.ec.europa.eu>
- https://research-and-innovation.ec.europa.eu/funding/funding-opportunities_en
- https://research-and-innovation.ec.europa.eu/research-area_en




The screenshot shows the 'Funding & tender opportunities' page. The URL <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home> is highlighted with a red box. Below the navigation bar, the 'FUNDING' link is highlighted with a red box.

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The European Union (Budget and Research)



Boehringer Ingelheim
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European Research & Innovation Programmes (*International competitive calls for funding*)

Funding

https://research-and-innovation.ec.europa.eu/funding/funding-opportunities_en



European
Commission

EN

Research and innovation

[Home](#) > [Funding](#) > [Funding opportunities](#) > [Funding programmes and open calls](#)

Funding programmes and open calls

Funding programmes that support research and innovation projects, with links to open and upcoming calls

PAGE CONTENTS

Research and innovation
programme

EU4Health

Cohesion Fund

LIFE Climate Change Mitigation
and Adaptation

European Regional Development
Fund (ERDF)

Technical Support Instrument

European Structural
and Investment Funds (ESIF)

Research Fund for Coal and
Steel (RFCS)

Research and innovation programme

Horizon Europe

[Horizon Europe](#) is the EU's research and innovation programme for 2021-2027 with a budget of €95.5 billion.

It tackles climate change, helps to achieve the UN's Sustainable Development Goals and boosts the EU's competitiveness and growth.

The programme facilitates collaboration and strengthens the impact of research and innovation in developing, supporting and implementing EU policies while tackling global challenges. It supports creating and better dispersing of excellent knowledge and technologies.

It creates jobs, fully engages the EU's talent pool, boosts economic growth, promotes industrial competitiveness and optimises investment impact within a strengthened European Research Area.


[Open and upcoming calls for Horizon Europe](#)

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The European Union (Budget and Research)

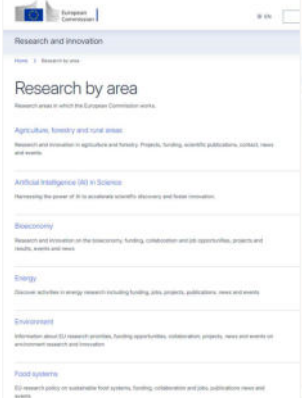


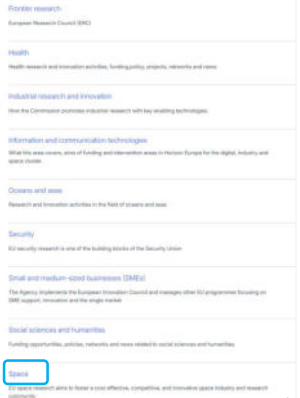
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European Research & Innovation Programmes (International competitive calls for funding)


Research by Area

https://research-and-innovation.ec.europa.eu/research_area_en






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The European Union (Budget and Research)

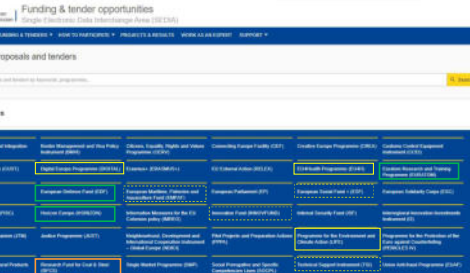


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European Research & Innovation Programmes

(International competitive calls for funding)

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home>



HORIZON EUROPE

- HORIZON EUROPE** (focus on civil applications)
- EURATOM**: Euratom Research and Training Programme
- EDF**: European Defence Fund (focus on defence)

DIGITAL: Digital Europe Programme

EU4HEALTH: EU4Health Programme

LIFE: Programme for the Environment and Climate Action

RFCS: Research Fund for Coal & Steel

European Structural and Investment Funds:

- Cohesion Fund** (ERDF, ERDF+ERDF)
- ERDF: European Regional Development Fund** (reg., nat., cross-b., trans., inter-c.)
- ESF: European Social Funds** (reg., nat.)
- CAPRD: European agricultural fund for rural development**
- EMRAF: European maritime, fisheries and aquaculture fund**
- Innovation Fund** (low-c. tech. reforms)

Technical Support Instrument
(Tech. expertise to support MS's needs)

(*) Bulgaria, Croatia, Cyprus, Czechia, Estonia, Greece, Hungary, Latvia, Lithuania, Malta, Poland, Portugal, Romania, Slovakia, Slovenia.

How to participate in all steps:

- Find an opportunity
- Find a partner
- Create an account
- Register your organisation
- Submit your proposal or offer

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Horizon EUROPE (2021-2027), the most ambitious EU R&I programme ever

EUROPEAN UNION

#HorizonEU

HORIZON EUROPE

THE EU RESEARCH & INNOVATION PROGRAMME

2021 - 2027

https://research-and-innovation.ec.europa.eu/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe_en

Directorate-General for Defence Industry and Space

Research, Development & Innovation

For an Innovative and Autonomous European Space Ecosystem

Horizon Europe Space-related calls for proposals are now released!

Horizon Europe Space-related calls for proposals are now released!

https://defence-industry-space.ec.europa.eu/index_en

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Horizon EUROPE (2021-2027), the most ambitious EU R&I programme ever

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#HorizonEU

HORIZON EUROPE

THE EU RESEARCH & INNOVATION PROGRAMME

2021 - 2027

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The European Union Framework Programme (R&I)

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Horizon EUROPE (2021-2027), the most ambitious EU R&I programme ever

EUROPEAN DEFENCE FUND

SPECIFIC PROGRAMME: EUROPEAN DEFENCE FUND

Exclusive focus on defence research & development

Research actions

Development actions

HORIZON EUROPE

SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT*

Exclusive focus on civil applications

Pillar I EXCELLENT SCIENCE

European Research Council

Marie Skłodowska-Curie

Research Infrastructures

Pillar II GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

Health

Culture, Creativity & Inclusive Society

Civil Security for Society

Digital, Industry & Space

Climate, Energy & Mobility

Food, Bioeconomy, Natural Resources, Agriculture & Environment

Pillar III INNOVATIVE EUROPE

European Innovation Council

European Innovation ecosystems

European Institute of Innovation & Technology*

Joint Research Centre

WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

Widening participation & spreading excellence

Reforming & Enhancing the European R&I system

EURATOM

Fusion

Fission

Joint Research Center

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

(Source: European Commission)

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The European Union Framework Programme (R&I)

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Horizon EUROPE (2021-2027), the most ambitious EU R&I programme ever

EUROPEAN DEFENCE FUND

SPECIFIC PROGRAMME: EUROPEAN DEFENCE FUND

Exclusive focus on defence research & development

Research actions

Development actions

HORIZON EUROPE

SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT*

Exclusive focus on civil applications

Pillar I EXCELLENT SCIENCE

European Research Council

Marie Skłodowska-Curie

Research Infrastructures

Pillar II GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

Health

Culture, Creativity & Inclusive Society

Civil Security for Society

Digital, Industry & Space

Climate, Energy & Mobility

Food, Bioeconomy, Natural Resources, Agriculture & Environment

Pillar III INNOVATIVE EUROPE

European Innovation Council

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WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

Widening participation & spreading excellence

Reforming & Enhancing the European R&I system

EURATOM

Fusion

Fission

Joint Research Center

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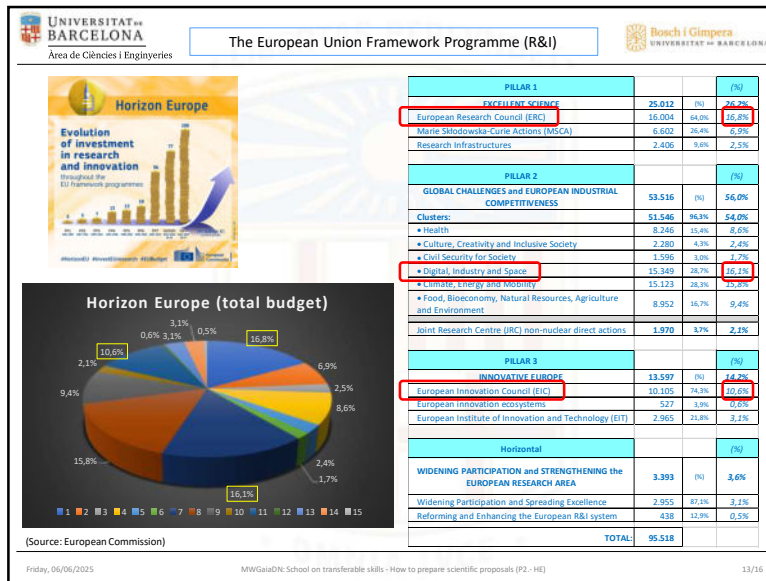
(Source: European Commission)

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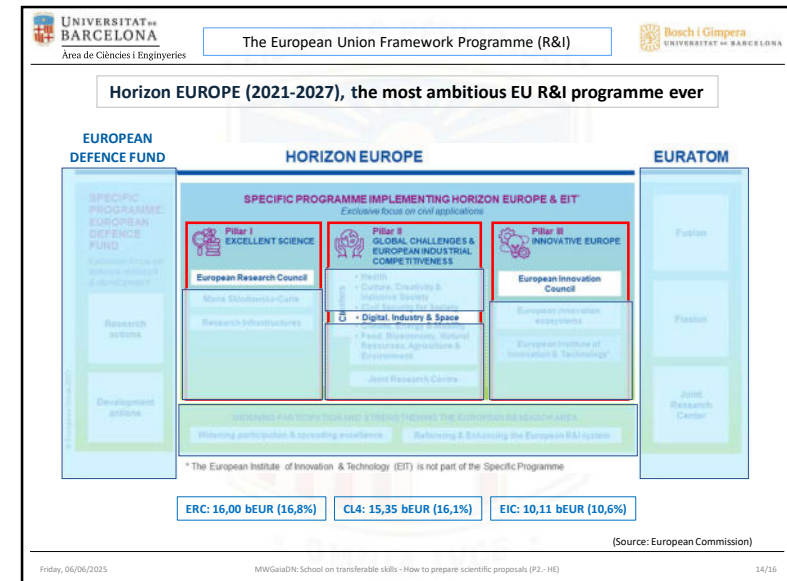
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The European Union Framework Programme (R&I)

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Proposal: **new** features (Horizon Europe)

NEW FIELDS IN PART A

- Researchers table – needed to follow up researchers careers (HE indicator)
- Role of participating organisation
- Self-declaration on gender equality plan

FIELDS MOVED FROM PART B TO PART A

- Ethics self-assessment
- Security questionnaire (NEW! in all HE proposals)
- Information on participants' previous activities related to the call

NEW FIELDS IN PART B

- Glossary of terms
- Consistency on the use of terminology is ensured in all project phases (from WP to proposal and reporting)
- Extensive explanations on what exactly should be included in each section

Open Science across the programme

Pathway to impact

Do no significant harm principle (DNSH)

Gender dimension in R&I content

Measures to maximise impact (KIP)

Artificial Intelligence

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Thank you
Gràcies
Gracias

Armando J Palomar
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School on transferable skills: managing, entrepreneurial and IPR



“How to prepare scientific proposals (international competitive calls)”

Armando J Palomar
International Research Advisor
Area of Sciences and Engineering, University of Barcelona

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European Research Council (ERC)

Pillar I - Excellent Science: ERC, MSCA, RI



ERC-2025: 2,683 BEUR
ERC-2024: 2,193 BEUR
ERC-2023: 2,150 BEUR
ERC-2022: 2,427 BEUR
ERC-2021: 3,878 BEUR

MSCA: 6,60 BEUR (6,9%)
RI: 2,41 BEUR (2,5%)

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European Research Council (ERC)

European Research Council: what is it?

Commission Decisions: L 57/14, 24.02.2007; C 373/23, 20.12.2013; C 234 I/5, 17.06.2021

- Public body, established in 2007 (18y)
- Scientific governance (independent) by the European Scientific Council (ESC, composed of 22 elected eminent scientists/scholars, including the President and 3 Vice-Presidents; 4 years term, renewable once); with full authority over funding strategy
- Supported operationally by the ERC Executive Agency (ERCEA: *autonomous*, implementing, based in BXL)

Mission

to encourage the highest quality research in Europe through competitive funding and to support investigator-driven frontier research across all fields, based on scientific excellence

Strategy

- Excellence as the only criterion
- Support for individual scientists (anywhere in the world) – *no networks/consortia!*
- Support of frontier research in all fields of science and humanities (no predetermined subjects: “bottom-up”)
- Global peer-review evaluation (28 ERC panels: 11xPE, 9xLS, 8xSH)
- Restrictions on resubmission of proposals
- Thematic Working Groups (4): • “Gender and Diversity”, • “Innovation”, • “Widening European Participation”, and • “Open Science”
- Standing Committees (3): • “Conflict of Interests, Scientific Misconduct and Ethics”, • “Panels”, and • “Programme Impact Monitoring and Evaluation”

The ERC supports excellence in frontier research through a bottom-up, individual-based, pan-European competition

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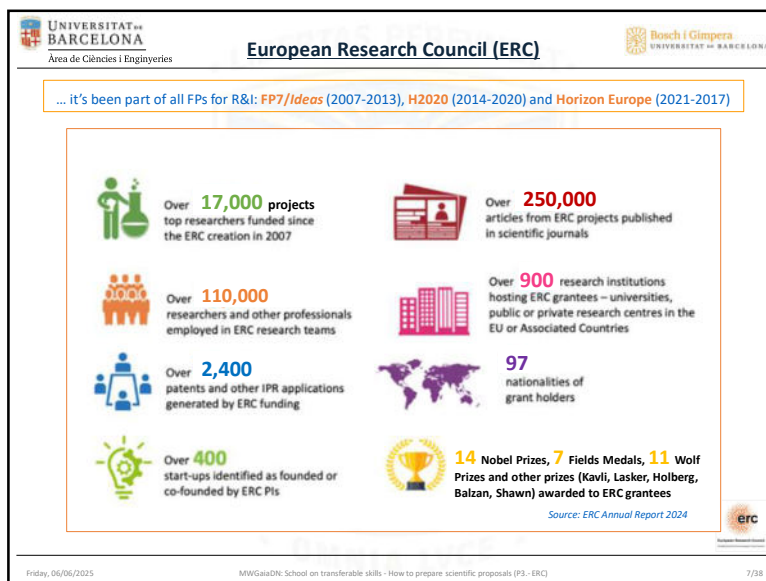
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Funding schemes (actual costs/lump sum)

Individual

- Starting Grants**
2-7 years after PhD (≥ 50% commitment)
up to €1.5 million* for 5 years
- Consolidator Grants**
7-12 years after PhD (≥ 40% commitment)
up to €2 million* for 5 years
- Advanced Grants**
no specific criteria (≥ 30% commitment)
up to €2.5 million* for 5 years
- Synergy Grants**
2-4 PIs (no specific criteria) (≥ 30% commitment)
up to €10 million* for 6 years

Complementary

- Proof-of-Concept (*)**
for ERC grant holders only
bridging gap between research - earliest stage of marketable innovation
€150,000 for 18 (12) months

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Funding schemes: Objectives and PIs

Grants:	Starting	Consolidator	Advanced/Synergy*
PI working time	≥ 50% (proposal) ≥ 50% (EU member state)	≥ 40% (proposal) ≥ 50% (EU member state)	≥ 30% (proposal) ≥ 50% (EU member state)
	Transition to independence	Establishing independence	Research leader
Competitive candidate	<ul style="list-style-type: none"> potential for research independence evidence of maturity... ≥ 1 important publication as main author or without PhD supervisor 	<ul style="list-style-type: none"> shown research independence evidence of maturity... several important publications as main author or without PhD supervisor 	<ul style="list-style-type: none"> Significant research achievements during last 10y exceptional leader (originality and significance of research) ≥ 10 publications as main author in major international journals, keynote/plenary invitations, conference organizer, launched career of researchers
	Track record of achievements (early for StG/CoG and 10y for AdG) appropriate to field and career stage: publications, monographs, patents, invited presentations, prizes, awards,...		

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<https://erc.europa.eu/>

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Home Apply for a grant Manage your project Projects & statistics News & events Support About the ERC

Increased ERC funding

Read the news

Apply for a grant

Find the funding scheme that is suited for you

ERC Starting Grant
ERC Consolidator Grant
ERC Advanced Grant
ERC Synergy Grant
ERC Proof-of-Concept Grant

Projects & statistics

Project data, Science stories and analysis

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Apply for a grant Manage your project Projects & statistics

ERC dashboard

The ERC dashboard is an interactive tool that features data on ERC funded projects and evaluated proposals.

The tool allows users to access project details with the help of filters, to generate statistics and to export data in different formats.

Explore

ERC dashboard statistics

ERC contribution: €29,560M
Projects: 17,056
Countries: 35
Host institutions: 1,052
Nationalities: 97

https://dashboard.tech.ec.europa.eu/qs_digit_dashboard_mt/public/sense/app/c140622a-87e0-412e-8b29-9b5dd857e13/sheet/61a0bd1d-cfd6-4ac8-8b55-80d8661e44c0/state/analysis

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The screenshot displays the official website of the European Research Council (ERC). The header features the ERC logo and navigation links. A prominent banner at the top reads "Increased ERC funding" with a "Read the news" button. Below the banner, there are several featured project cards. The first card, titled "Understanding the universe by staring through cosmic time," includes a photograph of a person in a laboratory setting. The second card, titled "The cosmic threat that binds our universe," features a colorful astronomical image. Each card provides a brief description of the research and a link to the full project page. The website also includes a search bar and a footer with contact information.

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European Research Council (ERC)

[Home](#)
[Apply for a grant](#)
[Manage your project](#)
[Progress & statistics](#)
[News & events](#)
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Have a look at our videos





[ERC funding explained](#)
[GSA on ERC grant competitions](#)
[The transdisciplinary sciences](#)

ERC CLASSES

[How to get started with your ERC proposal](#)
[ERC ERC WORK PROGRAMME 2025 FOR CANDIDATES](#)
[How to write part 1 of your ERC proposal](#)
[ERC ERC WORK PROGRAMME 2025 FOR CANDIDATES](#)
[How to write part 2 of your ERC proposal](#)
[ERC ERC WORK PROGRAMME 2025 FOR CANDIDATES](#)
[How to develop your ERC proposal](#)
[ERC ERC WORK PROGRAMME 2025 FOR CANDIDATES](#)
[How to prepare for your ERC interview](#)
[ERC ERC WORK PROGRAMME 2025 FOR CANDIDATES](#)
[How to apply for your ERC Award of Synergy Grant](#)
[ERC ERC WORK PROGRAMME 2025 FOR CANDIDATES](#)
[ERC Classes: How to communicate on your science project](#)
[How to Play to the ERC application process](#)

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<https://www.youtube.com/playlist?list=PLTV6fN3XqNXYAR6GHCErWmXwL02KMcY>

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European Research Council (ERC)

ERC annual calls



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ERC Work Programme 2021



ERC Work Programme 2023



ERC Work Programme 2024



ERC Work Programme 2022



ERC Work Programme 2024



ERC Work Programme 2024



ERC Work Programme 2022



ERC Work Programme 2024



ERC Work Programme 2024



ERC Work Programme 2022



ERC Work Programme 2024



ERC Work Programme 2024

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European Research Council (ERC)



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EN ANEX

European Commission Decision CORDIS 2818

ERC Work Programme 2025




European Research Council

Established by the European Commission

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Indicative summary of calls from the 2025 budget^{21,22}

	Starting Grant	Consolidator Grant	Advanced Grant	Synergy Grant
Call identifier	ERC-2025-StG	ERC-2025-CoG	ERC-2025-AdG	ERC-2025-SyG
Call opens	10 July 2024	26 September 2024	22 May 2025	11 July 2024
Call deadline	15 October 2024	14 January 2025	28 August 2025	6 November 2024
Budget million EUR ²³ (estimated number of grants)	CLOSED 751 (483)	CLOSED 719 (354)	683 (276)	CLOSED 500 (48)
Planned dates to inform applicants after each step	5 May 2025 22 August 2025	18 July 2025 12 December 2025	30 January 2026 12 June 2026	14 April 2025 15 August 2025 27 October 2025
Indicative date for signature of grant agreements	21 December 2025	12 April 2026	17 November 2026	24 March 2026




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Summary of complementary funding with indicative budget and timetable²⁷

	Proof of Concept Grant (call)
Call identifier	ERC-2025-PoC
Type of action	ERC frontier research grant
Opening of the call	13 November 2024
Cut-off dates or deadline(s) for application	13 March 2025 18 September 2025
Budget EUR (estimated number of grants)	30 000 000 (200)
Planned dates to inform applicants	26 June 2025 14 January 2026
Indicative date for signature of grant agreements	24 October 2025 14 May 2026




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Indicative Budget

	2025 budget in EUR million		
Main Frontier Research Grants	2,652.30	2,652,30	97,9%
ERC-2025-StG	751.10	751,10	27,7%
ERC-2025-CoG	718.70	718,70	26,5%
ERC-2025-AdG	682.50	682,50	25,2%
ERC-2025-SyG	500.00	500,00	18,4%
Complementary funding for ERC Principal Investigators	30.00	30,00	1,1%
ERC-2025-PoC	30.00	30,00	1,1%
Other Actions	23.82	23,82	0,9%
Experts	21.02 ²⁴	21,02	0,8%
Coordination and support actions	2.80	2,80	0,1%
Public procurement	4.10	4,10	0,2%
Estimated total budget	2,710.22	2,710,22	100,0%




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	2021	2022	2023	2024	2025	TOTAL	(%)
Main frontier grants	1.878,00	2.377,00	2.120,00	2.163,00	2.653,00	11.191,00	98,76%
StG	619,00	749,00	628,00	601,00	751,00	3.348,00	29,55%
Estimated number	413	502	407	387	483	2.192	
CoG	633,00	776,00	595,00	584,00	719,00	3.307,00	29,19%
Estimated number	317	388	300	291	354	1.650	
AdG	626,00	555,00	597,00	578,00	683,00	3.039,00	26,82%
Estimated number	250	223	246	237	276	1.232	
SyG		297,00	300,00	400,00	500,00	1.497,00	13,21%
Estimated number		33	30	39	48	150	
Complementary funding	0,00	50,00	30,00	30,00	30,00	140,00	1,24%
PoC		50,00	30,00	30,00	30,00	140,00	1,24%
Estimated number		334	200	200	200	934	
	1.878,00	2.427,00	2.150,00	2.193,00	2.683,00	11.331,00	100,00%



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The screenshot shows the ERC website's 'Funding & tender opportunities' section. The left navigation menu has a red dashed box around the 'Information' tab. The main content area displays the 'ERC-2024-STG' call for proposals, including details like the programme (Horizon Europe Framework Programme), call title, type of action, deadline, and objectives.

Information

- Applications submitted by a **Principal Investigator (PI)** in agreement with a **Host Institution (HI)** which is the applicant legal entity.
- Submission is accepted only via the web-based **Participant Portal Submission Service (PPSS)**

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```
graph TD
    A[ERC proposal (2025)] --> B[• The application procedure consists of a single submission stage (through a Host Institution).]
    A --> C[• A complete ERC proposal consists of three separate components:  
- The online administrative 'Proposal submission forms'  
- The research proposal (Parts B1 and B2), and  
- The supporting documentation (Annexes)]
    C --> D[Part A - Administrative form  
1 - General information (Proposal, panel, abstract)  
2 - Participants (Host Institution: legal, gender eq. plan; PI, contacts)  
3 - Budget (Costs, Resources)  
4 - Ethics and security (self-assessments)  
5 - Other questions]
    C --> E[Part B1 - Proposal details  
Cover page, with proposal summary  
a) Extended synopsis (5 pages)  
b) CV and Track record (4 pages)]
    C --> F[Part B2 - Research proposal (14 pages)  
a) State-of-the-art and objectives  
b) Methodology]
    C --> G[Annexes  
Letter of commitment (HI); PhD certificate (date of defence); Evidence of extensions]
```

The diagram illustrates the ERC proposal process. It begins with the title 'ERC proposal (2025)'. The process consists of a single submission stage through a Host Institution. A complete proposal includes three components: administrative forms, the research proposal (Parts B1 and B2), and supporting documentation (Annexes). Part A covers administrative details like general information, participants, budget, ethics, and other questions. Part B1 covers proposal details like the cover page, synopsis, and CV. Part B2 covers the research proposal itself, including the state-of-the-art and methodology. Annexes include the letter of commitment, PhD certificate, and evidence of extensions.

ERC proposal (2025)

- The application procedure consists of a **single submission stage** (through a **Host Institution**).
- A complete ERC proposal consists of three separate components:
 - The online administrative 'Proposal submission forms'
 - The research proposal (Parts B1 and B2), and
 - The supporting documentation (Annexes)

Part A - Administrative form

- 1 - General information (Proposal, panel, abstract)
- 2 - Participants (Host Institution: legal, gender eq. plan; PI, contacts)
- 3 - Budget (Costs, Resources)
- 4 - Ethics and security (self-assessments)
- 5 - Other questions

Part B1 - Proposal details

Cover page, with proposal summary

- a) Extended synopsis (5 pages)
- b) CV and Track record (4 pages)


Part B2 - Research proposal (14 pages)

- a) State-of-the-art and objectives
- b) Methodology

Annexes


Letter of commitment (HI); PhD certificate (date of defence); Evidence of extensions

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ERC proposal (2025)



HORIZON
Call: ERC-2024-STG
(Call for Proposals for ERC Starting Grant)
Topic: ERC-2024-STG
Type of Action: HORIZON-ERC
Proposal number:
Proposal acronym:
Type of Model Grant Agreement: HORIZON Action Grant Budget-Based
Table of contents

Section	File	Access
1.	General information	
2.	Participants	
3.	Budget	
4.	Ethics and security	
5.	Other questions	

ERC via 2024-03-05/2024-03-05 Page 1 of 25 Last update: 2024-03-05 12:48

Part A - Administrative form (on line)*

- 1 - General information**
(Title, acronym, duration, panel, keywords, abstract/2k, resubmission, declarations)
- 2 - Participant(s)**
(Host Institution: legal, gender eq. plan; PI, other contacts)
- 3 - Budget**
(Costs, Resources/8k)
- 4 - Ethics and security**
(Ethics issues table, ethics self-assessment; Security issues table)
- 5 - Other questions**
(PhD date/defence, time commitment,..., reviewers)


(*) Validation function

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Application forms

Project ID: 1

Acronym: 3 - Budget

ERC proposal (2025)

ERC logo

	A	B	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19	C20	C21	C22	C23	C24	C25	C26	C27	C28	C29	C30	C31	C32	C33	C34	C35	C36	C37	C38	C39	C40	C41	C42	C43	C44	C45	C46	C47	C48	C49	C50	C51	C52	C53	C54	C55	C56	C57	C58	C59	C60	C61	C62	C63	C64	C65	C66	C67	C68	C69	C70	C71	C72	C73	C74	C75	C76	C77	C78	C79	C80	C81	C82	C83	C84	C85	C86	C87	C88	C89	C90	C91	C92	C93	C94	C95	C96	C97	C98	C99	C100
Beneficiary Short Name																																																																																																						
Applicant Short Name																																																																																																						
Job																																																																																																						
Total																																																																																																						

1.1. General information

Project title: 1

Project acronym: 3 - Budget

Project start date: 1

Project end date: 1

Project duration: 1

Project description: 1

Project objectives: 1

Project impact: 1

Project relevance: 1

Project innovation: 1

Project excellence: 1

Project leadership: 1

Project management: 1

Project dissemination: 1

Project exploitation: 1

Project impact: 1

Project relevance: 1

Project innovation: 1

Project excellence: 1

Project leadership: 1

Project management: 1

Project dissemination: 1

Project exploitation: 1

Project impact: 1

Project relevance: 1

Project innovation: 1

Project excellence: 1

Project leadership: 1

Project management: 1

Project dissemination: 1

Project exploitation: 1

Project impact: 1

Project relevance: 1

Project innovation: 1

Project excellence: 1

Project leadership: 1

Project management: 1

Project dissemination: 1

Project exploitation: 1

Project impact: 1

Project relevance: 1

Project innovation: 1

Project excellence: 1

Project leadership: 1

Project management: 1

Project dissemination: 1

Project exploitation: 1

Project impact: 1

Project relevance: 1

Project innovation: 1

Project excellence: 1

Project leadership: 1

Project management: 1

Project dissemination: 1

Project exploitation: 1

Project impact: 1

Project relevance: 1

Project innovation: 1

Project excellence: 1

Project leadership: 1

Project management: 1

Project dissemination: 1

Project exploitation: 1

Project impact: 1

Project relevance: 1

Project innovation: 1

Project excellence: 1

Project leadership: 1

Project management: 1

Project dissemination: 1

Project exploitation: 1

Project impact: 1

Project relevance: 1

Project innovation: 1

Project excellence: 1

Project leadership: 1

Project management: 1

Project dissemination: 1

Project exploitation: 1

Project impact: 1

Project relevance: 1

Project innovation: 1

Project excellence: 1


Project leadership: 1

Project management: 1

Project dissemination:


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[illegible][illegible]



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ERC proposal 2025 (part B2)

applicant (see below) Part B2: ERC Starting Grant 2024 Part B2: (not evaluated in Step 2)

Section A: Motivation

Section A1 and A2 of Part B2 should not exceed 14 pages. References do not count towards the page limits.

Additional information to provide should be detailed:

*Please indicate the following (providing coordinates): Please have Reviewer, initial or final (with date) 2) members of the committee and 3) the top and bottom, under the heading: **ERC 2025** (do not include references under the heading of funding B2) and applications (do not include references).*

Section A: State of the art and objectives

Section A: Methodology

Do not include any description of research in budget tables (Part B3). The Researcher indicates the expected research work to carry out in the next 3 years. The Researcher indicates the expected research work to carry out in the next 3 years. The Researcher indicates the expected research work to carry out in the next 3 years.

1. Information for the Commission: Part B2 and Part B3 are to be based on the Information, the Applicant in the Starting and Consolidator Grant 2024 Call.

applicant (see below) Part B2: ERC Starting Grant 2024 Part B2: (not evaluated in Step 2)

Appendix: All current grants and on-going / submitted grant applications of the PI (Funding B2)

Additional information (does not count towards page limits):

Current research grant (Please indicate "in heading" when applicable)

Project Title	Funding source	Amount (€)	Period	Start of the PI	End of the PI

On-going / submitted grant applications (Please indicate "Yes" when applicable):

Project Title	Funding source	Amount (€)	Period	Start of the PI	End of the PI

Part B2 - Research proposal
(formatting constraints, 14 pages maximum, references do not count)


Section a. State-of-the-art and objectives

Section b. Methodology

Appendix (current grants and applications)


1. Additional studies, any research funding before (and ERC applications and the current research grant in the grant proposal applications)

ERC proposal 2025 (part B2)



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ERC proposal 2025 (part B2)

applicant (see below) Part B2: ERC Starting Grant 2024 Part B2: (not evaluated in Step 2)

Section A: Motivation

Section A1 and A2 of Part B2 should not exceed 14 pages. References do not count towards the page limits.

Additional information to provide should be detailed:

*Please indicate the following (providing coordinates): Please have Reviewer, initial or final (with date) 2) members of the committee and 3) the top and bottom, under the heading: **ERC 2025** (do not include references under the heading of funding B2) and applications (do not include references).*

Section A: State of the art and objectives

Section A: Methodology

Do not include any description of research in budget tables (Part B3). The Researcher indicates the expected research work to carry out in the next 3 years. The Researcher indicates the expected research work to carry out in the next 3 years. The Researcher indicates the expected research work to carry out in the next 3 years.

1. Information for the Commission: Part B2 and Part B3 are to be based on the Information, the Applicant in the Starting and Consolidator Grant 2024 Call.

applicant (see below) Part B2: ERC Starting Grant 2024 Part B2: (not evaluated in Step 2)

Appendix: All current grants and on-going / submitted grant applications of the PI (Funding B2)

Additional information (does not count towards page limits):

Current research grant (Please indicate "in heading" when applicable)

Project Title	Funding source	Amount (€)	Period	Start of the PI	End of the PI

On-going / submitted grant applications (Please indicate "Yes" when applicable):

Project Title	Funding source	Amount (€)	Period	Start of the PI	End of the PI

Part B2 - Research proposal
(formatting constraints, 14 pages maximum, references do not count)


Section a. State-of-the-art and objectives

Section b. Methodology

Appendix (current grants and applications)


1. Additional studies, any research funding before (and ERC applications and the current research grant in the grant proposal applications)

ERC proposal 2025 (part B2)




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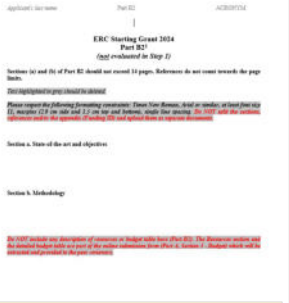


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ERC proposal 2025 (part B2)




Part B2 - Research proposal

Instructions for completing Part B2 can be found in the...

Document:

"Information for Applicants to the Starting and Consolidator Grant 2024 Calls"



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Elegibility

		Horizon Europe (2021-2027)									
		WP20	WP21	WP22	WP23	WP24	WP25	WP26	WP27	WP28	
	2020	2021	2022	2023	2024	2025	2026	2027	2028		
	2019	2020	2021	2022	2023	2024	2025	2026	2027		
	2018	2019	2020	2021	2022	2023	2024	2025	2026		
StG	2017	2018	2019	2020	2021	2022	2023	2024	2025		
	2016	2017	2018	2019	2020	2021	2022	2023	2024		
	2015	2016	2017	2018	2019	2020	2021	2022	2023		
	2014	2015	2016	2017	2018	2019	2020	2021	2022		
	2013	2014	2015	2016	2017	2018	2019	2020	2021		
CoG	2012	2013	2014	2015	2016	2017	2018	2019	2020		
	2011	2012	2013	2014	2015	2016	2017	2018	2019		
	2010	2011	2012	2013	2014	2015	2016	2017	2018		
	2009	2010	2011	2012	2013	2014	2015	2016	2017		
	2008	2009	2010	2011	2012	2013	2014	2015	2016		
AdG	2007	2008	2009	2010	2011	2012	2013	2014	2015		
	2006	2007	2008	2009	2010	2011	2012	2013	2014		

Extensions of eligibility window:

(only possible for StG and CoG, for properly documented circumstances*, provided they started before the call deadline)

- Maternity - 18 months per child (before or after PhD)
- Paternity - leave time taken (before or after PhD)
- National service - actual time taken (after PhD)
- Long-term illness** - actual time taken (after PhD)
- Disability - reduced working time and/or degree of disability (after PhD)
- Clinical training - time received/4y maximum (after PhD)
- Major Disaster*** - time unable to work/90d minimum (after PhD)
- Seeking Asylum - time unable to work/application (after PhD)

* For applicants whose first eligible degree is their medical degree such incidents can be considered from the date of completion of their medical degree.

** Over 90 days for the Principal Investigator or a close family member (child, spouse, parent or sibling).

*** Natural (earthquakes, floods,...) or human-caused (armed conflicts)

No limit to the total extension

* The date of the PhD considered for the calculation of the eligibility period is the date of the successful defence of the first PhD degree.

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ERC proposal (WP-2024)

Elegibility: restrictions on resubmissions

Call to which the Principal Investigator applied under previous ERC Work Programmes and proposal evaluation outcome	2024 ERC calls to which a Principal Investigator is not eligible	
2022 and 2023 Starting, Consolidator, Advanced Grant, or Synergy Grant	Rejected on the grounds of a breach of research integrity	Starting, Consolidator, Advanced, and Synergy Grant
2022 Starting, Consolidator, or Advanced Grant	C at Step 1	Starting, Consolidator, and Advanced Grant
2023 Starting, Consolidator, or Advanced Grant	A or B at Step 2	No restrictions
	B or C at Step 1	Starting, Consolidator, and Advanced Grant
2022 and 2023 Synergy Grant	A or B at Step 3	No restrictions
	B at Step 1 or 2	No restrictions
	C at Step 1	Synergy Grant

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Physical Sciences & Engineering

- PE1 Mathematics (22)
- PE2 Fundamental Constituents of Matter (18)
- PE3 Condensed Matter Physics (16)
- PE4 Physical and Analytical Chemical Sciences (18)
- PE5 Synthetic Chemistry and Materials (18)
- PE6 Computer Science and Informatics (14)
- PE7 Systems and Communication Engineering (12)
- PE8 Products and Process Engineering (14)
- PE9 Universe Sciences (13)
- PE10 Earth System Science (21)
- PE11 Materials Engineering (14)

Life Sciences

- LS1 Molecules of Life: Biological Mechanisms, Structures and Functions (14)
- LS2 Integrative Biology: From Genes and Genomes to Systems (16)
- LS3 Cell Biology, Development, Stem Cells and Regeneration (17)
- LS4 Physiology in Health, Disease and Ageing (13)
- LS5 Neuroscience and Disorders of the Nervous System (18)
- LS6 Immunity, Infection and Immunotherapy (11)
- LS7 Prevention, Diagnosis and Treatment of Human Diseases (15)
- LS8 Environmental Biology, Ecology and Evolution (15)
- LS9 Biotechnology and Biosystems Engineering (12)

Social Sciences and Humanities

- SH1 Individuals, Markets and Organisations (16)
- SH2 Institutions, Governance and Legal Systems (9)
- SH3 The Social World and its Interactions (12)
- SH4 The Human Mind and its Complexity (11)
- SH5 Texts and Concepts (11)
- SH6 The Study of the Human Past (14)
- SH7 Human Mobility, Environment, and Space (10)
- SH8 Studies of Cultures and Arts (9)

Evaluation Panels (each): Chair and 10 - 16 Members

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Annex 1

Primary panel structure

Physical Sciences & Engineering

- PE1 Mathematics
- PE2 Fundamental Constituents of Matter
- PE3 Condensed Matter Physics
- PE4 Physical and Analytical Chemical Sciences
- PE5 Synthetic Chemistry and Materials
- PE6 Computer Science and Informatics
- PE7 Systems and Communication Engineering
- PE8 Products and Process Engineering
- PE9 Universe Sciences
- PE10 Earth System Science
- PE11 Materials Engineering

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PE9 Universe Sciences
Astro-physics/-chemistry/-biology; solar system; planetary systems; stellar, galactic and extragalactic astronomy; cosmology; space sciences; astronomical instrumentation and data

PE9_1 Solar physics – the Sun and the heliosphere
PE9_2 Solar system science
PE9_3 Exoplanetary science, formation and characterization of extrasolar planets
PE9_4 Astrobiology
PE9_5 Interstellar medium and star formation
PE9_6 Stars – stellar physics, stellar systems
PE9_7 The Milky Way
PE9_8 Galaxies – formation, evolution, clusters
PE9_9 Cosmology and large-scale structure, dark matter, dark energy
PE9_10 Relativistic astrophysics and compact objects
PE9_11 Gravitational wave astronomy
PE9_12 High-energy and particle astronomy
PE9_13 Astronomical instrumentation and data, e.g. telescopes, detectors, techniques, archives, analyses

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Evaluation criteria (WP-2025)

1. Research Project : Ground-breaking nature, ambition and feasibility

Ground-breaking nature and potential impact of the research project

- To what extent does the proposed research address **important scientific challenges**?
- To what extent are the objectives **ambitious and beyond the state of the art**?
(e.g. novel concepts and approaches or development between or across disciplines)

Scientific Approach

- To what extent is the outlined scientific approach **feasible bearing in mind the ground-breaking nature and ambition of the proposed research**? (based on the Extended Synopsis, B1)
- To what extent are the proposed research methodology and working arrangements **appropriate to achieve the goals** of the project? (based on the research proposal, B2)
- To what extent are the proposed **timescales, resources and PI commitment** adequate and properly justified? (based on the research proposal, B2)

2. Principal Investigator : Intellectual capacity and creativity

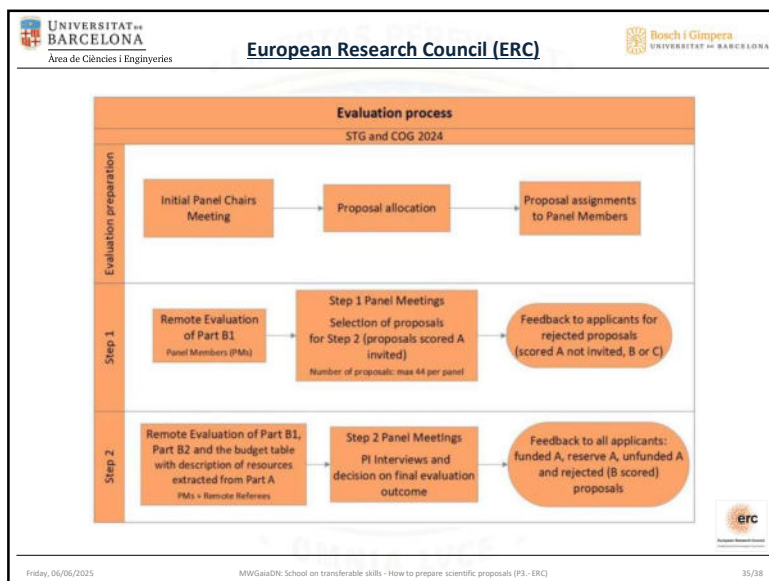
Starting, Consolidator, Advanced and Synergy

- To what extent has/have the PI(s) demonstrated the **ability to conduct ground-breaking research**?
- To what extent does/do the PI(s) provide evidence of **creative and original thinking**?
- To what extent does/do the PI(s) have the required **scientific expertise and capacity to successfully execute** the project?

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Some suggestions:

- Allow **sufficient time** to prepare your application
- Make full use of **all the support available** (Institutional, personal,...)
- .../...
- Read the **guidelines** (several documents) and consider when to apply
- Review the **funded proposals** (within a particular call/topic/panel)
- Respect the page limits and **proof-read** your proposal well
- Easy to read** proposal -consider structure and layout
- Accessible and convincing** to specialists and non-specialists:
 - What is the problem that needs to be solved?
 - Why is it significant?... Be specific
 - What makes your approach ground-breaking?... sell your proposal
 - Provide "irrefutable evidence" of excellence and impact
 - Plan to mitigate the risk
- Get **feedback from peers**
- Double and triple check** that all documents are correct and have been submitted
- Submit **well in advance** of the deadline -you can overwrite any version with a new one

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European Research Council (ERC)

Changes to the 2026 and 2027 Work Programmes
(ERC Press release, 02/06/2025)

BREAKING NEWS

<https://erc.europa.eu/news-events/news/changes-2026-and-2027-work-programmes>



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“How to prepare scientific proposals (international competitive calls)”

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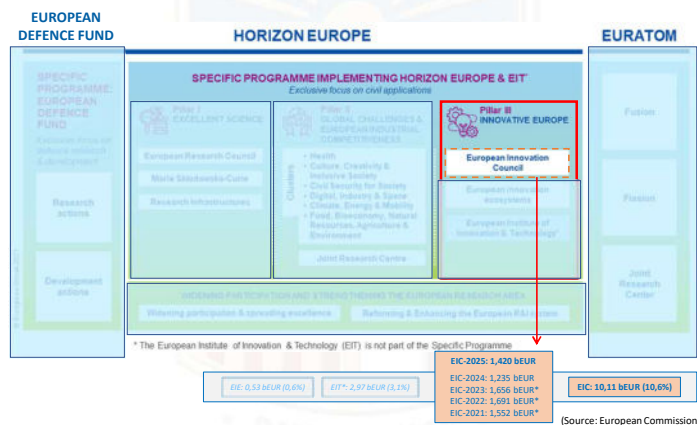
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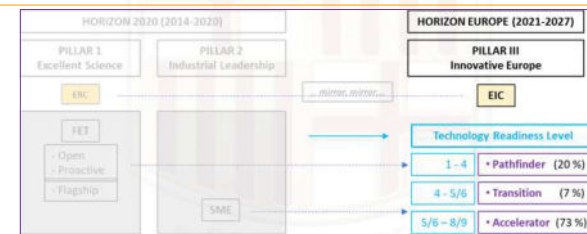
EIC: H2020 pilot phase (2018-2020) and Horizon Europe (2021-2027)

The EIC pilot phase (2018-2020), incorporated in a single work programme instruments existing under the H2020 programme, to provide direct support to innovators throughout Europe, in particular:

- the Future & Emerging Technology (FET) programme (pillar 1 - H2020) and
- the SME instrument (pillar 2 - H2020)

The EIC pilot phase, together with the existing instruments:

- supported 430+ projects on FET, involving 2700+ partners, and
- generated 3000+ peer reviewed scientific articles, 600+ innovations, and 100+ patents.
- also 5700+ start-ups and SMEs, who have raised over €5 billion in follow up investments (3 euro for every euro from the EU budget) and on average, more than doubled the number of employees in a year period.



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Under Horizon Europe (2021-2027), the EIC provides financial support through **three main instruments**:

- **'Pathfinder'** for advanced research on breakthrough/game-changing technologies,
- **'Transition'** for transforming research results into innovation opportunities,
- **'Accelerator'** for single companies to develop and scale up breakthrough innovations with high risk and high impact.

https://eic.ec.europa.eu/index_en

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European Innovation Council: what is it?

The **EIC Board** is established by the Horizon Europe legislation, with a mandate to advise on:

- Overall **strategy** for the EIC
- The **EIC Work Programme** for implementation
- Identification of strategic **portfolios of projects** and the profile of **EIC Programme Managers**
- Other actions to improve the **European innovation ecosystem**

The members of the **EIC Board**, including a President, are selected by an open call for expressions of interest. They are **20 independent members** appointed from the world of innovation (entrepreneurs, researchers, investors, corporates and others from the innovation ecosystem).

The **EIC and SME Executive Agency (EISMEA)** responsible for supporting the EIC Board and its President, and for implementing the EIC's activities which are set out in an annual **EIC Work Programme**.

The EIC aims to identify and **support breakthrough technologies and game changing innovations** to create new markets and scale up internationally

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EIC Portfolios and Programme Managers

Programme Managers (PMs) have two overarching priorities:

- Identify **potential challenges** for emerging technologies and disruptive innovations, stakeholder/expert engagement and strategic intelligence.
- Pro-active management of **selected portfolios and projects**.

For **Pathfinder Open**, PMs may draw relevant projects into portfolio discussions. For **Pathfinder challenges**, PMs develop with the portfolio projects a common roadmap with activities that benefit all, such as data sharing, market analysis and contacts with investors.

Portrait	Name	Expertise
	Orsolya Symmons	Health and biotechnology
	Hedi Karay	Artificial intelligence
	Stella Tkatchova	Space systems & technologies
	Samira Nik	Quantum tech & electronics
	Franc Mouwen	Architectural engineering construction technologies
	Federica Zanca	Medical imaging and AI in healthcare
	Ivan Stefanic	Food chain technologies, novel & sustainable food
	Isabel Obieta	Responsible electronics
	Carina Falber	Renewable energy conversion & alternative resource exploitation
	Paolo Bondavalli	Advanced materials for energy

EIC PROGRAMME MANAGERS

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EIC annual Work Programme

The EIC Work Programme is the annual plan for the EIC, detailing the activities and projects to be supported. It is established by the European Commission under the Horizon Europe programme (2021-27).

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European Innovation Council (EIC)							
EIC annual budgets (2021-2025)							
	2021	2022	2023	2024	2025	TOTAL	(%)
Main funding	1.505,40	1.674,30	1.606,20	1.027,00	994,00	6.806,90	89,47%
Pathfinder Open	180,20	197,20	179,00	138,00	142,00	836,40	10,99%
Estimated number	60	66	62	45	47	280	
Pathfinder Challenges	146,80	178,20	163,50	120,00	120,00	728,50	9,58%
Estimated number	42	49	43			134	
Pathfinder	327,00	375,40	342,50	258,00	262,00	1.564,90	20,57%
Transition Open	59,60	70,90	67,90	94,00	98,00	390,40	5,13%
Transition Challenges	40,50	60,10	60,50	0,00	0,00	161,10	2,12%
Transition	100,10	131,00	128,40	94,00	98,00	551,50	7,25%
Accelerator Open	582,50	631,00	611,80	375,00	384,00	2.584,30	33,97%
Accelerator Challenges	495,80	536,90	523,50	300,00	250,00	2.106,20	27,69%
Accelerator	1.078,30	1.167,90	1.135,30	675,00	634,00	4.690,50	61,65%
Complementary funding	73,30	42,50	49,50	210,00	425,50	800,80	10,53%
	1.578,70	1.716,80	1.655,70	1.237,00	1.419,50	7.607,70	100,00%

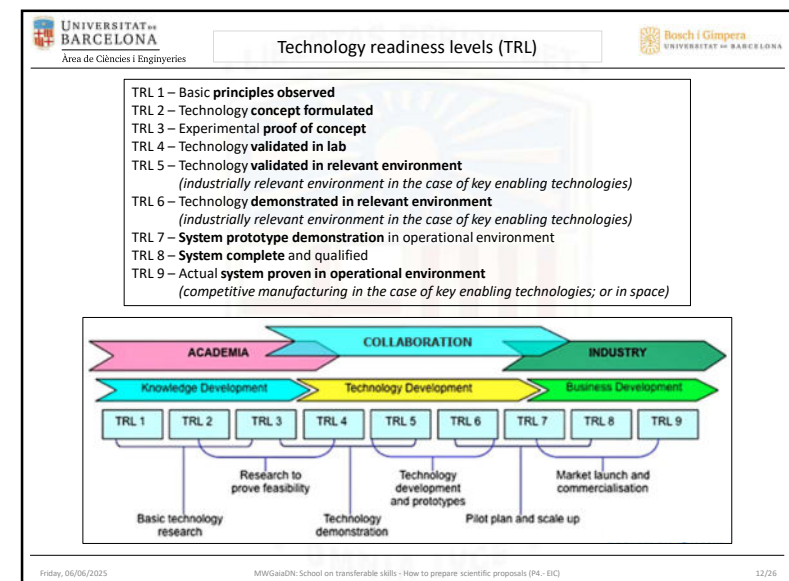
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European Innovation Council (EIC)	
EIC annual Work Programme 2025	
	
	

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European Innovation Council (EIC)		
EIC annual Work Programme 2025		
Table 1. Summary of main calls in 2025 12		
Call	Who can apply	What for
EIC Pathfinder	Open call: only consortia can apply. Challenges call: smaller consortia (at least two eligible entities) or single applicants as well as larger consortia.	Open Call: Grants up to EUR 3 million. Challenge Call: Grants up to EUR 4 million. Higher amounts if duly justified. Projects to achieve the proof of principle and validate the scientific basis of breakthrough technologies (starting from early TRLs aiming at achieving TRL3 or 4).
EIC Transition	Single applicants (SMEs, spin-offs, start-ups, research organisations, universities) or small consortia (minimum 2, maximum 5 eligible entities).	Grants of up to EUR 2.5 million to validate and demonstrate technology in application-relevant environment (starting at TRL 3/ 4 aiming at achieving TRL 5/ 6) and develop business and market readiness.
EIC Accelerator	Single start-ups and SMEs (including spin-offs) individuals (intending to launch a start-up/ SME) and in some cases small mid-caps (fewer than 499 employees).	Grant component below EUR 2.5M for innovation activities (TRL 6 to 8). Investment component of EUR 0.5 up to 10 million for scaling up and other activities. Grant only and investment only component under certain conditions.
EIC Accelerator – STEP scale-up call	Single startups and SMEs, small mid-caps, investors on behalf of eligible companies	Investment component of EUR 10 up to 30 million for scaling up strategic technologies for Europe.

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Technology readiness levels (TRL)

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ANNEX 1: TRLs OVERVIEW TABLE

Cluster	TRL	H2020 terminology	EARTO reading	EARTO definition and description
Invention	TRL1	Basic principles observed	Basic principles observed	Basic scientific research is translated into potential new basic principles that can be used in new technologies.
	TRL2	Technology formulated	Technology formulated	Potential application of the basic (technological) principles are identified, including their technological concept. Also the first manufacturing principles are explored, as well as possible markets identified. A small research team is established to facilitate assessment of technological feasibility.
Concept validation	TRL3	Experimental proof of concept	First assessment of feasibility of the concept and technologies	Based on preliminary study, now actual research is conducted to assess technical and market feasibility of the concept. This includes active R&D on a laboratory scale and first discussions with potential clients. The research team is further expanded and early market feasibility assessed.
	TRL4	Technological validity in a lab	Validation of integrated prototype in a laboratory	Basic technological components are integrated to assess early feasibility by testing in a laboratory environment. Manufacturing is actively researched, identifying the main production principles. Lead markets are engaged to ensure connection with demand. Organisation is prepared to enter into scale up, possible services prepared and a full market analysis conducted.
Prototyping and incubation	TRL5	Technology validated in relevant environment (industrially relevant environment in the case of KETs)	Testing of the prototype as a user environment	The system is tested in a user environment, connected to the broader technological infrastructure. Actual use is tested and validated. Manufacturing is prepared and tested in a laboratory environment and lead markets can test pre-production products. First activities within the organisation are established to further scale up to pilot production and marketing.
Pilot production and demonstration	TRL6	Technology demonstrated in relevant environment (industrially relevant environment in the case of KETs)	Pre-production of the product, including testing in a user environment	Product and manufacturing technologies are now fully integrated in a pilot line or pilot plant (low rate manufacturing). The interaction between the product and manufacturing technologies are assessed and fine-tuned, including additional R&D. Lead markets test the early products and manufacturing process and the organisation of production is made operational (including marketing, logistics, production and others).
	TRL7	System prototype demonstration in an operational environment.	Low scale production demonstrated	Manufacturing of the product is now fully operational at low rate, producing actual commercial products. Lead markets test these final products and organisational implementation is finalized (full marketing established, as well as all other production activities fully organized). The product is formally launched into first early adopter markets.
Initial market introduction	TRL8	System completed and qualified	Manufacturing fully tested, validated and qualified	Manufacturing of the product, as well as the product final version is now fully established, as well as the organisation of production and marketing. Full launch of the product is now established in national and general early majority markets.
Market expansion	TRL9	Actual system proven in operational environment (competitive manufacturing in the case of KETs, or in space)	Production and product fully operational and competitive	Full production is sustained, product expanded to larger markets and incremental changes in the product create new versions. Manufacturing and overall production is optimized by continuous incremental innovations to the process. Early majority markets are fully addressed.

Source: EARTO (European Association of Research and Technology Organisations)

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EIC annual Work Programme 2025

Table 1. Summary of main calls in 2025 12

Call	Who can apply	What for	EIC Open	Deadlines	Indicative Budget (EUR million)	EIC Challenge	EIC Challenges	Deadlines/ Cut-offs	Indicative Budget (EUR million)
EIC Pathfinder	Open call: only consortia can apply. Challenge: call: smaller consortia (at least two eligible entities) or single applicants as well as larger consortia.	Open Call: Grants up to EUR 1 million. Challenge Call: Grants up to EUR 4 million. Higher amounts if duly justified. Projects to achieve the proof of principle and validate the scientific basis of breakthrough technologies (starting from early TRLs aiming at achieving TRL3 or 4).		21 May 2025	142		Biotech for Climate Resilient Crops and Plant-Based Biomufacturing Generative AI-based Agents to Revolutionize Medical Diagnosis and Treatment of Cancer Towards autonomous robot collectives delivering collaborative tasks in dynamic unstructured construction environments Waste-to-value devices - circular production of renewable fuels, chemicals and materials	29 October 2025	126
EIC Transition	Single applicants (SMEs, start-ups, research organisations, universities) or small consortia (maximum 5 eligible entities).	Grants of up to EUR 25 million to validate and demonstrate technology in application-relevant environment (starting at TRL 3/4 aiming at achieving TRL 5/6) and develop business and market readiness.		17 September 2025	98				
EIC Accelerator	Single start-ups and SMEs (including spin-offs, individuals (intending to launch a start-up) SMEs and in some cases small mid-caps (fewer than 499 employees)).	Grant component below EUR 25M for innovation activities (TRL 4 to 6). Investment component of EUR 0.5 up to 10 million for scaling up and other activities. Grant only and investment only component under certain conditions.		Short applications any time continuous Full applications 12 March 2025 1 October 2025	344		Acceleration of advanced materials development and upscaling along the value chain Biotechnology driven low emission food production systems Generative AI - Creating European Champions in Generative AI Investment in space servicing operations, space-based robotics and technologies for resilient EU space infrastructure Breakthrough innovations for future mobility	12 March 2025 1 October 2025	250
EIC Accelerator - STEP scale-up call	Single start-ups and SMEs, small mid-caps, investors on behalf of eligible companies	Investment component of EUR 10 up to 30 million for scaling up strategic technologies for Europe.		Any time continuous	300				

12 This table provides a simplified overview. All applicants need to read the relevant sections for the full information on eligibility and conditions for funding, including Annex 2. As affiliated entities do not sign the grant agreement, they do not count towards the minimum eligibility criteria for consortium composition (if any). The Director General responsible for the call may decide to open the calls up to one month prior to or after the envisaged date(s) of opening. The Director General responsible may delay the call deadline(s) by up to two months.

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European Innovation Council (EIC)

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EIC Pathfinder

What is the EIC Pathfinder?

The EIC Pathfinder

- funds research to develop the scientific basis to underpin breakthrough technologies
- supports the earliest stages of scientific, technological or deep-tech R&D
- aims to build on new, cutting-edge directions in science and technology to disrupt a field and a market or create new opportunities
- realises innovative technological solutions to identify, develop and scale up breakthrough technologies and disruptive innovations in Europe

Funding schemes

EIC Pathfinder Open

to support projects in any field of science, technology or application without predefined thematic priorities (bottom-up)

EIC Pathfinder Challenges

to support coherent portfolios of projects within predefined thematic areas with the aim to achieve specific objectives for each Challenge

EIC Pathfinder Open: Gatekeepers

Collaborative, interdisciplinary research, meeting the following Gatekeepers:

- convincing, long-term vision of a radically new technology that has the potential to have a transformative positive effect to our economy and society;
- concrete, novel and ambitious science-towards-technology breakthrough, providing advancement towards the envisioned technology;
- high-risk & high-gain research approach & methodology, with concrete and plausible objectives.

Expected output | Open projects

- Proof of principle that the main ideas of the envisioned future technology are feasible, thus validating its scientific and technological basis
- Project results should include top-level scientific publications in open access
- Projects are expected to take the necessary measures to allow future uptake to take place, for instance through an adequate formal protection of the generated Intellectual Property (IP) and an assessment of relevant aspects related to regulation, certification, and standardization.
- Projects are encouraged to involve and empower key actors in their teams that have the potential to become future leaders in their field such as excellent early-career researchers or promising high-tech SMEs, including start-ups
- Projects are also encouraged to empower female researchers and to achieve gender balance among the work package leaders

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Pathfinder Challenges: EIC annual Work Programmes 2021-2025

For the identification of EIC Challenges, yearly EIC Emerging Technologies reports will be published to provide a multi-annual perspective and an overall assessment of opportunities stemming from the latest scientific, technological and innovative advancements as well as relevant policy, industrial, societal and market drivers. These reports will provide important considerations for the process of identifying EIC Challenges for future Work Programmes. It is however important that the EIC can react quickly to new developments and hence the selection of EIC Challenges will not be restricted to the areas identified by these reports.

2021 (132M; 41)

- Awareness inside (8)
- Tools to measure & stimulate activity in brain tissue (10)
- Emerging Technologies in Cell & Gene Therapy (8)
- Novel routes to green hydrogen production (9)
- Engineered living materials (6)

2022 (167M; 49)

- Carbon dioxide & Nitrogen management and valorisation (8)
- Mid-long term, systems-integrated energy storage (8)
- Cardiogenomics (7)
- Healthcare Continuum technologies (9)
- DNA-based digital data storage (9)
- Alternative Quantum Information Processing, Communication, and Sensing (8)

2023 (164M; 43)

- Clean and efficient cooling (...)
- Construction digitalisation (...)
- Precision nutrition (...)
- Responsible electronics (...)
- In-space solar energy (...)

2024 (120M; 40)

- "Solar-to-X" devices Towards cement and concrete as a carbon sink (...)
- Nature inspired alternatives for food packaging and films (...)
- Nanoelectronics for energy-efficient smart edge devices (...)
- Protecting EU space infrastructure (...)

2025 (120M; 40)

- Biotech for Climate Resilient Crops and Plant-Based Biomufacturing
- Generative AI-based Agents to Revolutionize Medical Diagnosis and Treatment of Cancer
- Towards autonomous robot collectives delivering collaborative tasks in dynamic unstructured construction environments
- Waste-to-value devices - Circular production of renewable fuels, chemicals and materials

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The screenshot displays the EIC Pathfinder Open call for proposals page. A red box highlights the 'Internal navigation' menu on the left, which includes links to 'General information', 'Topic description', 'Conditions and documents', 'Partner support arrangements', 'Start submission', 'Start interest FAQ', 'Call support', and 'Call updates'. The main content area shows the 'General information' section, which includes the 'Programme' (EIC Pathfinder Open), 'Type of action' (EIC Pathfinder Open), 'Deadline date' (07 March 2024), and 'Topic description' (You should apply if you are looking for support from EIC Pathfinder Open to create an ambitious vision for radically new technology, with potential to create new markets and/or to address global challenges). The page also features the European Commission logo and the text 'Funding & tender opportunities'.


Applications submitted by a Principal Investigator (PI) of a Coordinating Institution which is the applicant legal entity, on behalf of a Consortium.

Submission is accepted only via the web-based Participant Portal Submission Service (PPSS)



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EIC Pathfinder Open calls: application form

- A complete EIC proposal consists of:
- **The online administrative forms (Part A)**
- **the research proposal (Part B), and**
- **the supporting documents (Annexes)**

Part A - Administrative form

- 1 - **General information** (Acronym, title, duration, keywords, abstract, declarations)
- 2 - **Participants** (Institutions: legal, contacts, role, gender eq. plan, researchers, publications, projects, infrastructures)
- 3 - **Budget** (Cost items)
- 4 - **Ethics and security** (tables, self-assessments)
- 5 - **Other questions**

Annexes to Part B
(most common, with standard templates):

- CLINICAL TRIALS
- CALLS FLAGGED AS SECURITY SENSITIVE
- ETHICS (additional to A-form)


Part B - Technical description (20 pages max.)

1. **EXCELLENCE**
 - 1.1 Long-term vision
 - 1.2 Science-towards-technology breakthrough
 - 1.3 Objectives
 - 1.4 Interdisciplinary
2. **IMPACT**
 - 2.1 Long-term impact
 - 2.2 Innovation potential
 - 2.3 Communication and dissemination
3. **QUALITY AND EFFICIENCY OF THE IMPLEMENTATION**
 - 3.1 Work plan and allocation of resources
 - Table 3.1a: List of work packages
 - Table 3.1b: Work package description
 - Table 3.1c: List of deliverables
 - Table 3.1d: List of milestones
 - Table 3.1e: Critical risks for implementation
 - Table 3.1f: Summary of staff effort
 - Table 3.1g: 'Subcontracting costs' items
 - Table 3.1h: 'Purchase costs' items (travel and subsistence, equipment and other goods, works and services)
 - Table 3.1i: 'Other costs categories' items (e.g. internally invoiced goods and services)
 - Table 3.1j: 'In-kind contributions' provided by third parties
 - 3.2 Quality of the consortium

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EIC Pathfinder Open: template (part B)

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Fill in the title of your proposed title

2019-2020 Academic year (from 1st of September to 31st of August)

Fill in the Proposed Title

1. Executive summary

Executive summary – requests to be taken into account

- **Justification:** explain the scientific value of a socially new technology towards which the project would contribute or the long term...

- **Science towards technology (knowledge):** how concrete, novel and ambitious is the proposed science towards technology, knowledge with respect to the state-of-the-art and what advancement does it provide towards solving the considered technology?

- **Challenges:** How concrete and plausible are the proposed objectives to reach the desired goal of project? To what extent is the high-tech/gain research to provide the elements for achieving these new world of the proposed technology, including the existing concepts, materials, alternative devices and systems, challenges, consideration of the greater dimension in natural sciences, and the high-tech gain research?

- **Interdisciplinary:** How relevant is the interdisciplinary nature for achieving desired objectives for achieving the proposed technology?

- **Relevance:** explain why the system you propose will be the project that is better than the work progress.

1.1. Long term vision

- Describe your vision of the technology you want to develop, towards which the project would contribute in the long term.

1.2. Science towards technology (knowledge)

- Describe to concrete extent the science towards technology (knowledge) of the project.
- Describe the elements that you will use to discuss the feasibility and problems of the proposed technology with respect to it.
- Describe the plan/outline of the science towards technology (knowledge) for the realization of the considered technology.

1.3. Objectives

- Describe the objectives of your proposed work, are they concrete and plausible, measurable and verifiable and they sufficiently advanced to reach the envisaged goal of project within the duration of the project?

- Explain the appropriateness of the high-risk research approach for achieving the high-gain objectives of your project?

- Describe and explain the several methodologies, including the concepts, models and algorithms that will allow your work, together its capability, to deal with its considerable scientific and technological uncertainties of the project objectives and how appropriate it is to enable alternative directions and paths. Refer to an important technology that has been described in the literature methodology and how you intend to overcome them.

Part B: Part 1 of 2

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Fill in the title of your proposed title

2019-2020 Academic year (from 1st of September to 31st of August)

Fill in the Proposed Title

2. Scientific objectives of the project

Indicate how you plan to reach your scientific objectives. You should explain the possible failure of your project, and if it is a failure, explain why you think your research team is best suited to reach the target goal of the project.

- Describe possible failures in a policy measure generated by the project that will contribute to designing, monitoring, reviewing and verifying (if necessary) existing policy and governmental measures in shaping and accelerating the implementation of the policy initiatives and innovation.

3. Social and economic impact of the project

Describe the social and economic impact of the project. You should explain the possible failure of your project, and if it is a failure, explain why you think your research team is best suited to reach the target goal of the project.

Describe the economic, social and economic impact of the project. You should explain the possible failure of your project, and if it is a failure, explain why you think your research team is best suited to reach the target goal of the project.

Describe the economic, social and economic impact of the project. You should explain the possible failure of your project, and if it is a failure, explain why you think your research team is best suited to reach the target goal of the project.

3.2. Work plan and allocation of resources

Please provide the following:

- Initial presentation of the overall structure of the work plan.
- Group of the affected work packages and their components (chart or order).

• Work plan and allocation of resources (table)

Project ID	Project Title	PI1 Duration (months)	PI2 Duration (months)	PI3 Duration (months)	PI4 Duration (months)	PI5 Duration (months)
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9
10	10	10	10	10	10	10

- graphical presentation of the components towards which they have their focus (chart or order).




Part B: Part 2 of 2



Universitat de Barcelona

Frida, 06/06/2025



MWaiGao:GSoC on transferable skills - How to prepare scientific proposals (P4-EIC)

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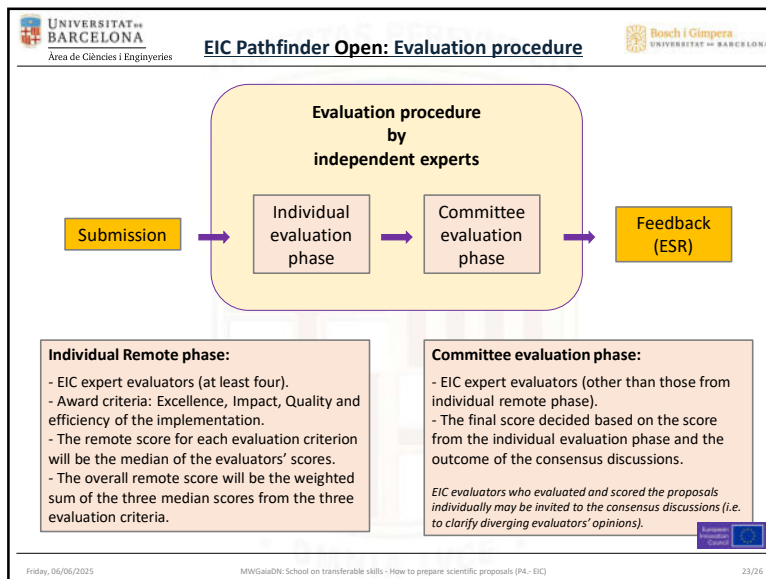
 UNIVERSITAT DE BARCELONA Àrea de Ciències i Enginyeries	EIC - Pathfinder Open Award criteria 2025	 Bosch i Gimpera UNIVERSITAT DE BARCELONA
Excellence	Impact	Quality and efficiency of the implementation
<p>Long-term vision:</p> <p>How convincing is the vision of a radically new technology and relevant potential solutions, towards which the project would contribute in the long term?</p> <p>Science-towards-technology breakthrough:</p> <p>How concrete, novel and ambitious is the proposed science-towards-technology breakthrough with respect to the state-of-the-art? What advancement does it provide towards realising the envisioned technology?</p> <p>Objectives:</p> <p>How concrete and plausible are the proposed objectives to reach the envisaged proof of principle? To what extent is the high-risk/high-gain research approach appropriate for achieving them? How sound is the proposed methodology, including the underlying concepts, models, assumptions, alternative directions and options, appropriate consideration of the gender dimension in research content, and the quality of open science practices?</p> <p>Interdisciplinarity:</p> <p>How relevant is the interdisciplinary approach from traditionally distant disciplines for achieving the proposed breakthrough?</p> <p>Threshold: 3/5 Weight: 60%</p>	<p>Long-term impact:</p> <p>How significant are the potential transformative positive effects that the envisioned new technology would have to our economy, environment and society?</p> <p>Innovation potential:</p> <p>To what extent does the envisioned new technology have potential for generating disruptive innovations in the future and for creating new markets? How adequate are the proposed measures for protection of results and any other exploitation measures to facilitate future translation of research results into innovations? How suitable are the proposed measures for involving and empowering key actors that have the potential to take the lead in translating research into innovations in the future?</p> <p>Communication and Dissemination:</p> <p>How suitable are the measures to maximise expected outcomes and impacts, including scientific publications, communication activities, for raising awareness about the project results' potential to establish new markets and/or address global challenges?</p> <p>Threshold: 3,5/5 Weight: 20%</p>	<p>Work plan:</p> <p>How coherent and effective are the work plan (work packages, tasks, deliverables, milestones, timeline, etc.) and risk mitigation measures in order to achieve the project objectives?</p> <p>Allocation of resources:</p> <p>How appropriate and effective is the allocation of resources (comprising person-months and other cost items) to work packages and consortium members?</p> <p>Quality of the consortium:</p> <p>To what extent do all the consortium members have the necessary capacity and high-quality expertise for performing the project tasks?</p> <p>Threshold: 3/5 Weight: 20%</p> 

<div> <div>  <div> <div>UNIVERSITAT de BARCELONA</div> <div>Àrea de Ciències i Enginyeries</div> </div> </div> <div> <div>EIC - Pathfinder Challenges Award criteria 2025</div> <div>  <div> <div>Bosch i Gimpera</div> <div>UNIVERSITAT de BARCELONA</div> </div> </div> </div> </div>		
Excellence	Impact	Quality and efficiency of the implementation
<p>Objectives and relevance to the Challenge: How clear are the project's objectives? How relevant are they in contributing to the overall goal and the specific objectives of the Challenge?</p> <p>Novelty: To what extent is the proposed work ambitious and goes beyond the state-of-the-art?</p> <p>Plausibility of the methodology: How sound is the proposed methodology, including the underlying concepts, models, assumptions, appropriate consideration of the gender dimension in research content, and the quality of open science practices?</p> <p>Threshold: 4/5 Weight: 60%</p>	<p>Potential Impact: How credible are the pathways to achieve the expected outcomes and impacts of the Challenge? To what extent would the successful completion of the project contribute to this?</p> <p>Innovation potential: How realistic is the proof of principle for demonstrating the potential impact of the technology for the challenge? How adequate are the proposed measures for protection of results and any other exploitation measures to facilitate future translation of research results into innovations with positive societal, economic or environmental impact? How suitable are the proposed measures for involving and empowering key actors that have the potential to take the lead in translating research into innovations in the future?</p> <p>Communication and Dissemination: How suitable are the proposed measures, including communication activities, to maximise expected outcomes and impacts for raising awareness about the project results' potential to establish new markets and/or address global challenges?</p> <p>Threshold: 3.5/5 Weight: 20%</p>	<p>Work plan: How coherent and effective are the work plan (work packages, tasks, deliverables, milestones, timeline, etc) and risk mitigation measures in order to achieve the project objectives?</p> <p>Allocation of resources: How appropriate and effective is the allocation of resources (comprising person-months and other cost items) to work packages and consortium members?</p> <p>Quality of the applicant /consortium (depends if mono or multi-beneficiaries): To what extent does the applicant / do all consortium members have the necessary capacity and high-quality expertise for performing the project tasks?</p> <p>Threshold: 3/5 Weight: 20%</p>
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Open	vs	Challenges
<p>Table 2. Award criteria for EIC Pathfinder Open</p> <p>Excellence (Threshold: 4/5, weight 60%)</p> <p>Long-term vision: How convincing is the vision of a radically new technology towards which the project would contribute in the long term?</p> <p>Science towards technology breakthrough: How concrete, novel, and ambitious is the proposed science towards technology breakthrough with respect to the state-of-the-art? What advancement does it provide towards realising the envisioned technology?</p> <p>Objectives: How concrete and plausible are the proposed objectives to reach the envisaged proof of principle? To what extent is the high-risk-high-gain research approach appropriate for achieving them? How sound is the proposed methodology, including the underlying concepts, models, assumptions, alternative directions and options, appropriate consideration of the gender dimension in research content, and the quality of open science practices?</p> <p>Interdisciplinary approach: How relevant is the interdisciplinary approach from traditionally distant disciplines for achieving the proposed breakthrough?</p> <p>Impact (Threshold: 3.5/5, weight 20%)</p> <p>Long-term impact: How significant are the potential transformative positive effects that the envisioned new technology would have to our economy, environment and society?</p> <p>Innovation potential: To what extent does the envisioned new technology have potential for generating disruptive innovations in the future and for creating new markets? How adequate are the proposed measures for protection of results and any other exploitation measures to facilitate future translation of research results into innovations? 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Award criteria for EIC Pathfinder Challenges</p> <p>Excellence (Threshold: 4/5, weight 60%)</p> <p>Objectives and relevance to the Challenge: How clear are the project's objectives? How relevant are they in contributing to the overall goal and the specific objectives of the Challenge?</p> <p>Novelty: To what extent is the proposed work ambitious and goes beyond the state-of-the-art?</p> <p>Plausibility of the methodology: How sound is the proposed methodology, including the underlying concepts, models, assumptions, appropriate consideration of the gender dimension in research content, and the quality of open science practices?</p> <p>Impact (Threshold: 3.5/5, weight 20%)</p> <p>Potential Impact: How credible are the pathways to achieve the expected outcomes and impacts of the Challenge? 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EIC - Evaluation: award criteria



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Same criteria as in H2020:
'Excellence', 'Impact' and 'Quality and efficiency of the implementation'

Adapted, following lessons learnt:

- The number of 'aspects to be taken into account' have been **reduced**, ensuring that the same aspect is not assessed twice
- Assessment of **management structures** has been **removed**
- Open Science** practices assessed as part of the scientific methodology in the 'excellence' criterion
- New approach to impact:** Key Impacts Pathways (**KIPs**)
- The **quality of applicants** is assessed **under 'implementation'**, rather than as a separate binary assessment of operational capacity

REMOVED!!!
PILOT: Right-to-react (Rebuttal phase) (in Pathfinder evaluation)




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EIC Pathfinder (Open / Challenges)




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Some suggestions:

- Allow **sufficient time** to prepare your application
- Make full use of **all the support available** (OPIR,...)
- Consider the **consortium** and your role (**coordinator?**, **partner?**)
- .../...
- Read the **WP and the guidelines** (additional documents) and consider when to apply
- Review the **funded proposals** (within a similar call/topic/challenge)
- Respect the page limits and **proof-read** your proposal well
- **Easy to read** proposal (structure, layout); **accessible and convincing** to innovators
- Pathfinder"Gatekeepers":
 - Convincing long-term vision of a **radically new technology**
 - Concrete, **novel and ambitious science-towards-technology breakthrough**
 - **High-risk/high-gain research approach and methodology**, with concrete and plausible objectives
- **Get feedback from peers**
- **Double and triple check** that all documents are correct and have been submitted
- Submit **well in advance** of the deadline -*you can overwrite any version with a new one*



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Thank you

Gràcies

Gracias

Armando J Palomar

International Research Advisor

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School on transferable skills: managing, entrepreneurial and IPR



“How to prepare scientific proposals (international competitive calls)”

Armando J Palomar
International Research Advisor
Area of Sciences and Engineering, University of Barcelona



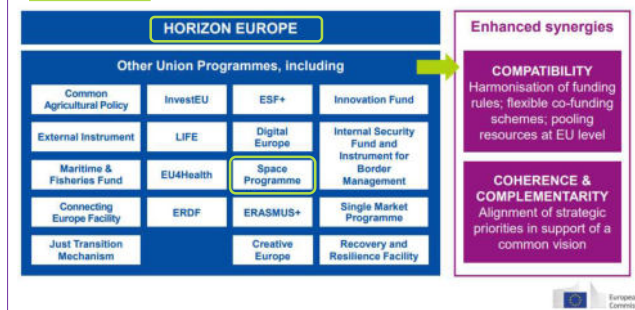
Cluster 4: Digital, Industry and Space

Horizon EUROPE (2021-2027), the most ambitious EU R&I programme ever



(Source: European Commission)

Synergies with other Union programmes



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Directorate-General for Defence Industry and Space (DG DEFIS)

https://defence-industry-space.ec.europa.eu/index_en

Research, Development & Innovation
For an Innovative and Autonomous European Space Ecosystem

Horizon Europe Space-related calls for proposals are now released!

Results available for 2023-2024, as part of Horizon Europe Cluster 4 "Digital, Industry and Space"

EUSPA 20th Anniversary
EUSPA is celebrating its 20th anniversary. Discover the key EU Space and EUSPA highlights and celebrate with us!

European Union Agency for the Space Programme

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Directorate-General for Defence Industry and Space (DG DEFIS)

https://defence-industry-space.ec.europa.eu/eu-space_en

EU-funded space R&I

Space Research and Innovation

Cassini
More on Cassini - Space Entrepreneurship Initiative

In-Orbit Demonstration and Validation (IODIV)
More on In-Orbit Demonstration and Validation (IODIV)

Quantum Technologies
More on Quantum Technologies

EU-funded space R&I in previous EU Framework programmes for Research and Innovation
More on EU-funded space R&I

In-Space Operations and Services
Introducing the Future Space Ecosystem and our Strategic Capacity to Act in Space

Technological non-dependence
Powering strategic autonomy in space

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Space Executive Agency: HaDEA

https://hadea.ec.europa.eu/programmes/horizon-europe/space/about_en

European Health and Digital Executive Agency (HaDEA)

About the Horizon Europe - Space programme
Overview and top priorities of the funding programme

€1.5 billion
Estimated budget

€870 million
Estimated budget for HaDEA 2021-2027

46
Topics
Number of topics under Declaration 5 for 2021-2024

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Cluster 4: Digital, Industry and Space

Horizon Europe: Reference Documents

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/reference-documents?programmePeriod=2021-2027&frameworkProgramme=43108390>

EU Funding & Tenders Portal

Reference documents


Filters: 2021-2027

Documents

EU Funding & Tenders Portal


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Cluster 4: Digital, Industry and Space




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Multiannual Work Programmes



EN
Horizon Europe
Work Programme 2021-2022
7. Digital, Industry and Space
(European Commission Decision C(2020) 2778 of 14 May 2020)



EN
Horizon Europe
Work Programme 2023
7. Digital, Industry and Space
(European Commission Decision C(2022) 2778 of 14 May 2022)




EN
Horizon Europe
Work Programme 2023-2024
7. Digital, Industry and Space
(European Commission Decision C(2023) 1578 of 01 March 2023)

Friday, 04/06/2025

MWGaia@N: School on transferable skills - How to prepare scientific proposals (P5 - CL4)


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Cluster 4: Digital, Industry and Space




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WP 2023-2024: Destination 5 / Call 2023 / Topic 01-71



The screenshot shows the EU Funding & Tenders Portal interface. On the left, a red dashed box highlights the 'Internal navigation' menu, which includes links like 'General information', 'Topic description', 'Eligibility', 'Access', 'Submission', 'Bidding and documents', 'Bidding information', 'Main information', 'Topic details', 'Call support', 'Call information', 'Call calendar', and 'Expected project list'. A red arrow points to the 'Call for proposals' link in the top navigation bar.


- Applications submitted by a **Principal Investigator (PI)** of a **Coordinating Institution** which is the applicant legal entity, on behalf of a **Consortium**.
- Submission is accepted only via the web-based **Participant Portal Submission Service (PPSS)**





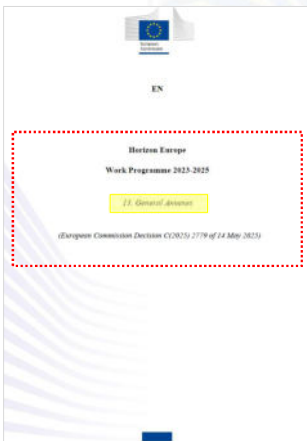
UNIVERSITAT de BARCELONA
Àrea de Ciències i Enginyeries


Cluster 4: Digital, Industry and Space



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WP 2023-2024: Destination 5 / Call 2023 / Topic 01-71






Friday, 06/06/2025


MWGaiaD.N. School on transferable skills - How to prepare scientific proposals (PS - CL4)

14/71



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Cluster 4: Digital, Industry and Space



SCHULICH UNIVERSITY AT BARCELONA

GENERAL CONDITIONS

ANNEX A. Admissibility

- Admissibility
- Page limits

ANNEX B. Eligibility

- Entities eligible to participate
(Affiliated, Associated, without legal personality, EU bodies, JRC, Associations and interest groups, restrictions to be considered)
- Entities eligible for funding
(Affiliated, Associated, CSA, EU bodies, International organisations)
- Consortium composition
- Eligible activities
- Research and innovation actions (RIA)
- Innovation actions (IA)
- Coordination and support actions (CSA)
- Programme co-fund actions (CoFund)
- Innovation and market deployment actions (IMDA)
- Training and mobility actions (TMA)
- Pre-commercial procurement actions (PCP)
- Public procurement of innovative solutions actions (PPI)
- Technology Readiness Levels (TRLs)
- Ethics
- Security - EU classified and sensitive information
- Gender equality plans and gender mainstreaming
- Financial support to third parties

OTHER TYPES OF ACTIONS AND FORMS OF FUNDING
(identified beneficiaries, Prizes, Experts, Services...)

ANNEX C. Financial and operational capacity and exclusion

- Financial capacity
- Operational capacity
- Exclusion

ANNEX D. Award criteria

- Award criteria
- Scores and weighting
- Two-stage calls

ANNEX E. Mandatory documents

- Submission

ANNEX F. Evaluation procedure


- Evaluation procedure and ranking
- Evaluation review procedure
- Indicative timetable for evaluation and for signature of the grant agreement

ANNEX G. Legal and financial set-up of the grant agreements

- Starting date & project duration
- Milestones and deliverables
- Form of grant, funding rate and maximum grant amount
- Budget categories and cost eligibility rules
(actual costs, units, flat-rate, lump-sum)
- Reporting & payment arrangements
- Certificates
- Liability regime for recoveries
- Provisions concerning project implementation
- Non-compliance and breach of contract
- IMPORTANT (advice/suggestions)

SPECIFIC CONDITIONS FOR ACTIONS WITH PCP/PPI


ANNEX H. Specific conditions for actions implementing pre-commercial procurement or procurement of innovative solution



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15/23



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IMPORTANT

Do not start yet! –> Complete the applications/submit by advance of the deadline to avoid any future technical problems. Following days to last minute technical support will be in **extreme** of emergency only. Call deadline on NOT in estimated in the respect of applicants.

Consider the time you will need to prepare the grant. The granting authority will not be in a position applicants to afford additional time in the case of delays.

Teaching & Teacher Panel demands exchange system. By submitting the application, all applicants agree to use the services provided in accordance with the conditions of the agreement.

Registration – Before submitting the application, all beneficiaries, affiliated members and associated partners must be registered in the **Participant Registry**. The participant identification code (PNC) can be participant's secondary for the application. For teaching, beneficiaries and affiliated members are registered to receive the necessary documents showing their input into the grant during the grant preparation phase. Associated partners do not need validation.

Consentment rules – When setting up the consortium, applicants should clarify that organizations that can help them reach objectives and deliver services.

The title should be obtained according to the dates of participation of each partner in the project. Main participants should participate in beneficiaries or affiliated members, other partners may participate as associated partners, beneficiaries, or third parties given additional conditions, provided that the related conditions are fulfilled. Associated partners and third parties given in-kind contributions should have done so prior to their selection, so they will not be treated formal request of EU funding. Subcontracting should normally constitute a limited part and must be performed by the third parties that are not of the beneficiaries' affiliated members, association etc.

Co-fundings – In each beneficiary grant, the beneficiaries participate as a consortium (group of beneficiaries). They will have to create a mechanism among them, while they manage and coordinate the project and will represent the consortium towards the granting authority. In non-beneficiary grants, the main beneficiary will coordinate the consortium.

Affiliated member – Applicants may participate with affiliated members. Affiliated members will get a part of the EU grant. EU should consider the beneficiaries as the main beneficiaries. Beneficiaries will have to sign the grant agreement on the not more than the maximum eligible citizens for the maximum proportion of the grant.

Associated partner – Applicants may participate with associated partners. They participate without funding and without requiring the grant agreement or financials. It is not used to be validated.

Consentment agreement – For practical and legal reasons, participants must conclude a written consentment agreement to ensure the smooth and successful implementation of the project and to deal with exceptional situations and ensure effective provision for all in the specific conditions. The consortium agreement sets out the provisions for the grant to be funding according to agreed conditions, management and assignments (if any). The beneficiaries can negotiate their grant share to another beneficiary. The consortium agreement between the grant to be funding according to the conditions and can also help to guide the members in a case of disputes. Consortium agreements can not require the same beneficiary.

Granting/agreement system – Applicants for projects that have already been completed or are started. Applicants should be aware that the grant agreement is not a contract, but a document that serves as a basis for the grant agreement. The grant agreement is not a contract, but a document that serves as a basis for the grant agreement. The grant agreement is not a contract, but a document that serves as a basis for the grant agreement.

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Doc. 13- General Annexes

No pre-profit rule – Grants are NOT given a profit (a surplus of revenues > EU grant over costs). This will be deducted for the granting authority if the grant is not used.

No double funding – There is no possibility of double funding from the EU funding. Grants are given when you receive more than 50% grant from the EU budget except for the EU synergy grant and some cases more than 50% contribution to a consortium and NOT funded from any other –> [Associated Partners](#) [Associated Partners](#)

Combination with EU spending grants – Combination with EU spending grants is possible, if the project remains outside the operating grant and spending the beneficiaries must take care that costs are not double counted. It is recommended to NOT include those in other –> [Associated Partners](#) [Associated Partners](#)

Multiple applications – Applicants may submit more than one application. If different projects share the same call, it is not needed funding for them.

Dispositions are not applicable in several applications.

BUT, if there are several applications for the **consortium** (same project), only one application will be accepted and awarded.

Language – Applicants can submit their applications in any official EU language. However, the review of the grant is in English only. In case of English, applicants must be able to communicate in English. If it is a strongly recommended to use English. If applicants want to be able to communicate in another official language, they must submit a request within 30 days after publication of the call. The call is in English.

Regimes – In submitting the application, all applicants agree that public conditions set out in the General Rules and the specific call conditions set out in the specific application call. It is not enough with all the call conditions will be required. The regime will be required. The regime will be required. The regime will be required. If any of them can be used, they must be required in the specific application call. It is not enough with all the call conditions will be required. The regime will be required. The regime will be required. The regime will be required.

Confidentiality – There may be circumstances which may require the confidentiality of the call. In this case, applicants will be required to use a call option. Confidentiality are not essential to competition.

Transparency – In accordance with Article 18 of the [European Union Regulation](#), information about EU grants provided a published only on the [Public Register](#).

The website:

- beneficiaries' names;
- beneficiaries' addresses;
- the project for which the grant was awarded;
- the beneficiaries' contact details.


Publications can exceptionally be waived following a successful and duly substantiated request, if there is a risk that disclosure could prejudice applicants' rights and business under the EU Charter of Fundamental Rights –> [Article 18 of the Regulation](#)

Data protection – The submission of an application made that involves the collection, use and processing of personal data. This will be processed in accordance with Regulation 2016/679. It will be processed in accordance with the provisions of the Regulation. The processing of personal data will be processed in accordance with the provisions of the Regulation. The processing of personal data will be processed in accordance with the provisions of the Regulation. The processing of personal data will be processed in accordance with the provisions of the Regulation.

Friday, 06/06/2025


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Doc. 13- General Annexes

*Briefing Paper: Work programme 2021-2027
General Annex*

B – General criteria

General criteria

If admissible and eligible, the proposals will be evaluated and ranked against the following award criteria¹. Depending on the type of activities:

Evaluation	Impact	Quality and efficiency of the implementation
<p>The following aspects will be taken into account in the score from the project team categorized in the descriptions in the work programme:</p> <p>Research and Innovation activities (R&I)</p> <p>Innovation activities (IA)</p>	<p>Clarity and purchase of the project's objectives, and the extent to which the proposed work is ambitious and goes beyond the state of the art.</p> <p>Soundness of the proposed (the first stage award) ("proof-of-concept"), including the underlying concepts, models, assumptions, and the clarity of appropriate representation of the project's dimensions in research and innovation activities, and the quality of open science practices, including training and management of research outputs and engagement of citizens, civil society</p>	<p>Credibility of the partners to achieve the expected outcomes and impact specified in the work programme, and the likely scale and significance of the contribution from the project.</p> <p>Feasibility and quality of the resources to maintain expected outcomes and impact, as set out in the dissemination and exploitation plan, including communication activities.</p>

*Briefing Paper: Work programme 2021-2027
General Annex*

C – Evaluation criteria

Research and Innovation activities (R&I)

1) Quality of the research project

2) Impact of the research project


3) Quality of the implementation

Evaluation	Impact	Quality and efficiency of the implementation
<p>The following aspects will be taken into account in the score from the project team categorized in the descriptions in the work programme:</p> <p>Research and Innovation activities (R&I)</p> <p>Innovation activities (IA)</p>	<p>Clarity and purchase of the project's objectives, and the extent to which the proposed work is ambitious and goes beyond the state of the art.</p> <p>Soundness of the proposed (the first stage award) ("proof-of-concept"), including the underlying concepts, models, assumptions, and the clarity of appropriate representation of the project's dimensions in research and innovation activities, and the quality of open science practices, including training and management of research outputs and engagement of citizens, civil society</p>	<p>Credibility of the partners to achieve the expected outcomes and impact specified in the work programme, and the likely scale and significance of the contribution from the project.</p> <p>Feasibility and quality of the resources to maintain expected outcomes and impact, as set out in the dissemination and exploitation plan, including communication activities.</p>

¹ For two-stage submission processes, only the aspects listed are considered for the evaluation of first-stage applications. The "Two-stage call" refers to the Schulich Gerding 2021-2027.

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WP 2023-2024: Destination 5 / Call 2023 / Topic 01-71



Horizon Europe Programme
Standard Application Form (HE RIA and IA)

Project proposal – Technical description (Part B)

Version 4.2
15 December 2024



Proposal template Part B: technical description
(for participants under direct submission procedure and 2nd stage of non-direct submission procedure)

The template is to be used in a single submission procedure or in the 2nd stage of a non-direct submission procedure.

The structure of this template must be followed when preparing your proposal. It has been designed to ensure that the structure of your proposal will be consistent with the structure of the template under submission and to ensure that your proposal will be consistent with the structure of the template under submission. The template is designed to ensure that your proposal will be consistent with the structure of the template under submission. The template is designed to ensure that your proposal will be consistent with the structure of the template under submission.

Part B: Technical description

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WP 2023-2024: Destination 5 / Call 2023 / Topic 01-71

- A complete proposal consists of:
- **The online administrative forms (Part A)**
- **the research proposal (Part B), and**
- **the supporting documents (Annexes)**

Part A - Administrative form

- 1 - **General information** (Acronym, title, duration, keywords, abstract, declarations)
- 2 - **Participants** (Institutions: legal, contacts, role, gender eq. plan, researchers, publications, projects, infrastructures)
- 3 - **Budget** (Cost items)
- 4 - **Ethics and security** (tables, self-assessments)
- 5 - **Other questions**

Annexes to Part B


(most common, with standard templates):


- CLINICAL TRIALS
- CALLS FLAGGED AS SECURITY SENSITIVE
- ETHICS (*additional to A-form*)

Part B - Technical description (# pages)

1. **EXCELLENCE**
 - 1.1 Objectives and ambition
 - 1.2 Methodology
2. **IMPACT**
 - 2.1 Project's pathways towards impact
 - 2.2 Measures to maximize impact – Dissemination, exploitation and communication
 - 2.3 Summary (KEY ELEMENT OF THE IMPACT SECTION)
3. **QUALITY AND EFFICIENCY OF THE IMPLEMENTATION**
 - 3.1 Work plan and resources
 - *Table 3.1a: List of work packages*
 - *Table 3.1b: Work package description*
 - *Table 3.1c: List of deliverables*
 - *Table 3.1d: List of milestones*
 - *Table 3.1e: Critical risks for implementation*
 - *Table 3.1f: Summary of staff effort*
 - *Table 3.1g: Subcontracting costs' items*
 - *Table 3.1h: 'Purchase costs' items (travel and subsistence, equipment and other goods, works and services)*
 - *Table 3.1i: 'Other costs categories' items (e.g. internally invoiced goods and services)*
 - *Table 3.1j: 'In-kind contributions' provided by third parties*
- 3.2 Capacity of participants and consortium as a whole


Award criteria





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Cluster 4: Digital, Industry and Space



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
Award criteria





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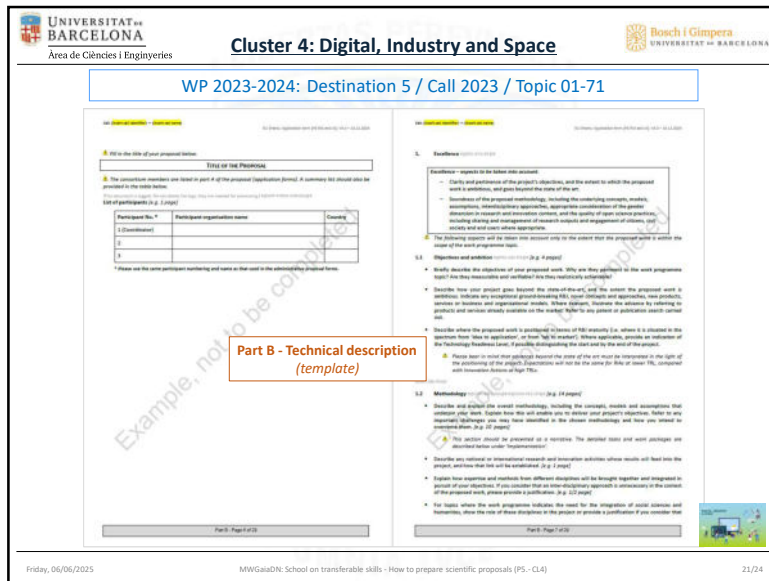
Annexes to Part B

(most common, with standard templates):

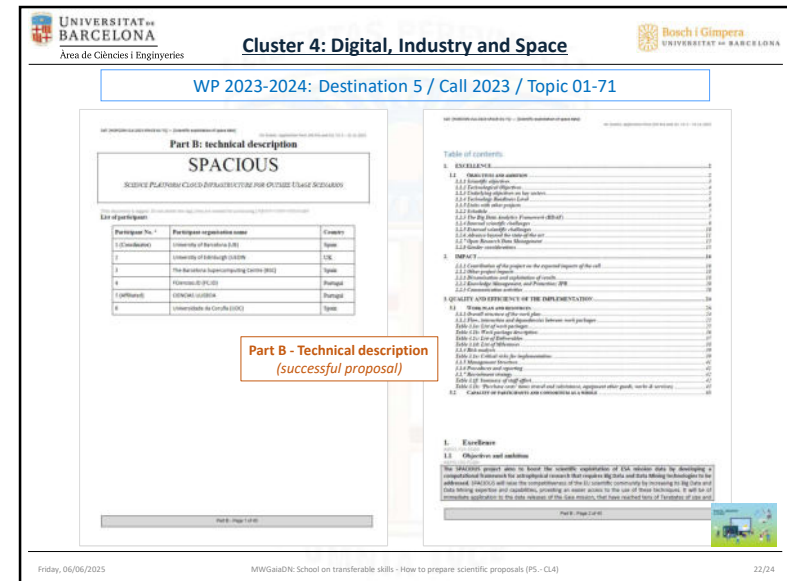
- CLINICAL TRIALS
- CALLS FLAGGED AS SECURITY SENSITIVE
- ETHICS (*additional to A-form*)

Part B - Technical description (# pages)

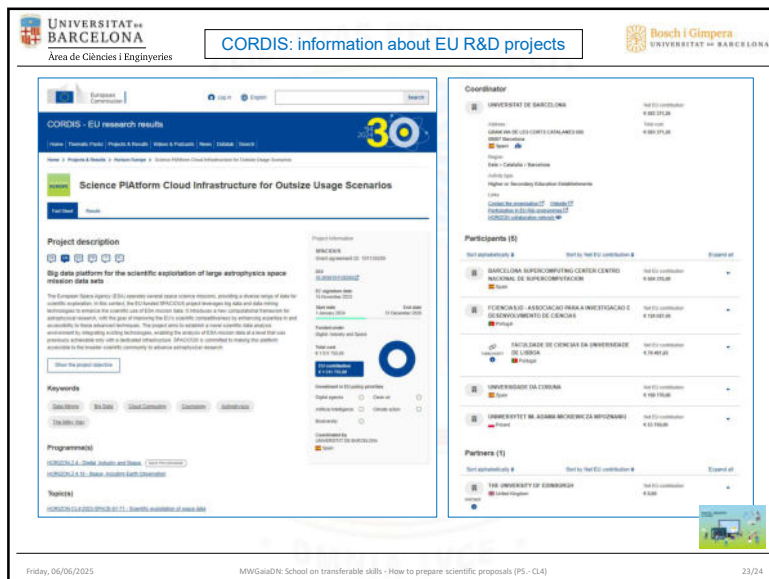
1. **EXCELLENCE**
 - 1.1 Objectives and ambition
 - 1.2 Methodology



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School on transferable skills: managing, entrepreneurial and IPR

"How to prepare scientific proposals (international competitive calls)"

Armando J Palomar

International Research Advisor

Area of Sciences and Engineering, University of Barcelona

Friday, 06/06/2025

MWGaiaDN: School on transferable skills - How to prepare scientific proposals (P6 - RP)

1/20

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A research proposal

Plenty of support !!

Video: "ERC funding explained" (NOV-DEC/2020)

<https://www.youtube.com/playlist?list=PLtv6FnsXqnXAYRk6HCerwMxwML02KoMcY>

Webinar: "How to prepare a successful proposal in Horizon Europe" (MAR/2021)

<https://ec.europa.eu/research/participants/docs/h2020-funding-guide/other/event210324.htm>

Webinar: "A successful proposal for Horizon Europe: Scientific-technical excellence is key, but don't forget the other aspects" (APR/2021)

<https://ec.europa.eu/research/participants/docs/h2020-funding-guide/other/event210421.htm>

Webinar: "Training on Horizon Europe proposal writing - Part 1 of 2" (OCT/2021)

<https://www.youtube.com/watch?v=PvBMcSAinAw>

Webinar: "Recipe for success. Tips and tricks to writing your Horizon Europe proposal" (OCT/2022)

<https://www.youtube.com/watch?v=DeY8RSuclwI>

MOOC on Horizon Europe: "Chapter 3. Successful proposal writing" (SEP/2023)

<https://ec.europa.eu/research/participants/docs/h2020-funding-guide/other/event210324.htm>

Friday, 06/06/2025

MWGaiaDN: School on transferable skills - How to prepare scientific proposals (P6 - RP)

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A research proposal

Example: an ERC (2025) application form

- The application procedure consists of a **single submission stage (through a Host Institution)**.
- A complete ERC proposal consists of three separate components:
 - The online administrative 'Proposal submission forms'
 - The research proposal (Parts B1 and B2), and
 - The supporting documentation (Annexes)

Part A - Administrative form

1 - General information (Proposal, panel, abstract)

2 - Participants (Host Institution: legal, gender eq. plan; PI, contacts)

3 - Budget (Costs, Resources)

4 - Ethics and security (self-assessments)

5 - Other questions

Part B1 - Proposal details

Cover page, with proposal summary

a) Extended synopsis (5 pages)

b) CV and Track record (4 pages)

Part B2 - Research proposal (14 pages)

a) State-of-the-art and objectives

b) Methodology

Annexes

Letter of commitment (HI); PhD certificate (date of defence); Evidence of extensions

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A research proposal

Example: an EIC Pathfinder Open (2025) application form

- A complete EIC proposal consists of:
 - The online administrative forms (Part A)
 - the research proposal (Part B), and
 - the supporting documents (Annexes)

Part A - Administrative form

1 - General information (Acronym, title, duration, keywords, abstract, declarations)

2 - Participants (Institutions: legal, contacts, role, gender eq. plan, researchers, publications, projects, infrastructures)

3 - Budget (Cost items)

4 - Ethics and security (tables, self-assessments)

5 - Other questions

Annexes to Part B

(most common, with standard templates):

- CLINICAL TRIALS
- CALLS FLAGGED AS SECURITY SENSITIVE
- ETHICS (additional to A-form)

Part B - Technical description (20 pages max.)

1. EXCELLENCE

1.1 Long-term vision

1.2 Science-towards-technology breakthrough

1.3 Objectives

1.4 Interdisciplinarity

2. IMPACT

2.1 Long-term impact

2.2 Innovation potential

2.3 Communication and dissemination

3. QUALITY AND EFFICIENCY OF THE IMPLEMENTATION

3.1 Work plan and allocation of resources

Table 3.1a: List of work packages

Table 3.1b: Work package description

Table 3.1c: List of deliverables

Table 3.1d: List of milestones

Table 3.1e: Critical risks for implementation

Table 3.1f: Summary of staff effort

Table 3.1g: Subcontracting costs' items

Table 3.1h: 'Purchase costs' items (travel and subsistence, equipment and other goods, works and services)

Table 3.1i: 'Other costs categories' items (e.g. internally invoiced goods and services)

Table 3.1j: 'In-kind contributions' provided by third parties

3.2 Quality of the consortium

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A research proposal

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Example of an awarded proposal (ERC-2020-CoG)

Objectives

- To develop a performance-based approach for the design of fuse-segmented buildings.
- To design, manufacture and test fuses for segmenting buildings.
- To implement fuses in segmented building structures and to validate and test the new fuse-based approach in realistic building prototypes.

Methodology

WP1. Performance-based approach for the design of fuse-segmented buildings
Mainly concerned with the development of novel methodologies for identifying buildings in which segmentation would be advantageous, for structural robustness design using, and for the positioning of fuses. The proposed approach will involve a risk segmentation-based evaluation of robustness which considers the probability of different events and their associated consequences.

WP2. Designing, manufacturing and testing fuses
Fuse requirements will be defined through advanced computational simulations before proceeding to their design, manufacturing and assembly. This involves a series of lab-tests both prior and posterior to the definition of the required detailing for their implementation in buildings. A computational parametric study will also be undertaken to extrapolate the fuse-based segmentation design to a range of different design situations.

WP3. Implementation and validation-testing on real buildings
This WP includes the ambitious task of testing two full-scale fuse-segmented buildings to validate the new design philosophy in real situations. Computational simulations of different event scenarios will then be performed to check that the fuses will only trigger in extreme situations (large initial failure) while the building's overall behaviour remains unaffected under normal loads or small initial failure. Simplified calculation models will then be defined to facilitate the inclusion of fuses in everyday building design.

WP1. Performance-based approach for the design of fuse-segmented buildings

WP2. Designing, manufacturing and testing fuses

WP3. Implementation and validation-testing on real buildings

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CV and Track record (ERC, individual,...)

PERSONAL DETAILS

Provide your personal details, your education and job qualifications (current position(s) and relevant previous positions on short CVs).

Fields: name, First name:
Research career summary(s) (such as ERCs, Research StG, etc. ...):
URL, for web site

Education and key qualifications

EDUCATION

YYYY - YYYY Degree
Name of Faculty/Department, Name of University, Institution, Country
Title of PhD dissertation
Name of Faculty/Department, Name of University, Institution, Country

Research positions

YYYY - YYYY Career Position
Name of Faculty/Department, Name of University, Institution, Country
YYYY - YYYY Career Position
Name of Faculty/Department, Name of University, Institution, Country

Research achievements

Describe a list of up to 10 research outputs that demonstrate how you have advanced knowledge in your field with an emphasis on more recent achievements (publications, articles deposited in a publicly available preprint server, books, book chapters, conference proceedings, data sets, software, patents, licenses, standards, start-up businesses or other research outputs you deem relevant in relation to your field and your project). You may include a short, factual explanation of the significance of the selected outputs, your role in producing each of them, and how they demonstrate your capacity to successfully carry out your proposed project.

Peer recognition

Provide a list of selected examples of significant recognition by your peers if applicable (prizes, awards, fellowships, elected academy memberships, invited presentations to major conferences or other examples of significant recognition relevant in relation to your research field and project). You may include a short explanation of the significance of the listed examples.

ADDITIONAL INFORMATION

Any other personal, research, professional, educational or other relevant information for your research career or personal history (GPs, PhD, postdoc, etc.) that may be relevant to your research career or personal history (GPs, PhD, postdoc, etc.).

Other contributions to the research community

You may include a list of particularly noteworthy contributions to the research community you have made other than research achievements and peer recognition and a short explanation of these contributions. The purpose of this section is to allow the panels to take a more rounded view of your career and achievements and to ensure that any additional responsibilities, commitments and leadership roles that you have taken on beyond your individual research activities are recognised and taken into account.

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CV and Track record (ERC, individual,...)

PERSONAL DETAILS

PI's education and key qualifications, current position(s) and relevant previous positions held.

RESEARCH ACHIEVEMENTS AND PEER RECOGNITION

Research achievements
Provide a list of up to 10 research outputs that demonstrate how you have advanced knowledge in your field with an emphasis on more recent achievements (publications, articles deposited in a publicly available preprint server, books, book chapters, conference proceedings, data sets, software, patents, licenses, standards, start-up businesses or other research outputs you deem relevant in relation to your field and your project). You may include a short, factual explanation of the significance of the selected outputs, your role in producing each of them, and how they demonstrate your capacity to successfully carry out your proposed project.

Peer recognition
Provide a list of selected examples of significant recognition by your peers if applicable (prizes, awards, fellowships, elected academy memberships, invited presentations to major conferences or other examples of significant recognition relevant in relation to your research field and project). You may include a short explanation of the significance of the listed examples.

ADDITIONAL INFORMATION

Relevant additional information on your research career to provide context when assessing your research as described above.

Career breaks, diverse career paths and major life events
You may include a short factual explanation of career breaks or diverse career paths (secondments, volunteering, part-time work, time spent in different sectors or the effects of major life events such as long-term illness as well as the effects of pandemic restrictions on research productivity).

Other contributions to the research community
You may include a list of particularly noteworthy contributions to the research community you have made other than research achievements and peer recognition and a short explanation of these contributions. The purpose of this section is to allow the panels to take a more rounded view of your career and achievements and to ensure that any additional responsibilities, commitments and leadership roles that you have taken on beyond your individual research activities are recognised and taken into account.

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Thank you
Gràcies
Gracias

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