







EL CONSEJO EUROPEO DE INVESTIGACIÓN EN HORIZONTE EUROPA











Excellent Science

European Research Council

Marie Skłodowska-Curie **Actions**

Research Infrastructures

Pillar 2

Global Challenges and European Industrial Competitiveness

- Health
- Culture, Creativity and **Inclusive Society**

- Inclusive Society

 Civil Security for Society

 Digital, Industry and Space

 Climate, Energy and Mobility
 - Food, Bioeconomy, Natural Resources, Agriculture and **Environment**

Joint Research Centre

Pillar 3

Innovative Europe

European Innovation Council

European innovation ecosystems

European Institute of Innovation and Technology

Widening Participation and Strengthening the European Research Area

Widening participation and spreading excellence

Reforming and Enhancing the European R&I system





Horizon Europe: the next EU research & innovation programme (2021-2017)

HE budget: 95,5 € billion ERC budget: 16 € billion











WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

Widening participation and spreading excellence

Reforming and Enhancing the European R&I system





ERC Budget 2007 – 2027: EUR 36,5 billion



FP7 2007-2013 €7,5 billion HORIZON 2020 2014-2020 €13 billion HORIZON EUROPE 2021-2027 €16 billion

1,07 bill € per year

1,9 bill € per year

2,3 bill € per year

No UK contribution (negotiations ongoing)









Over 10,000 top researchers funded since the ERC's creation in 2007



Over **150,000** articles from ERC projects published in prestigious scientific journals



Over **75,000** researchers and other professionals employed in ERC research teams



>800 research institutions
hosting ERC grantees – universities,
public or private research centres in
the EU or associated countries



€ 13 billion

ERC budget for 2014–2020 under Horizon 2020



84 nationalities of grant holders





ERC grantees who won the Nobel Prize during or after an ERC grant:





European



ESTRUCTURA DEL CONSEJO EUROPEO DE INVESTIGACIÓN







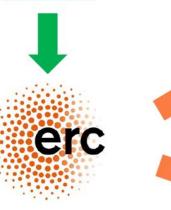
European Commission and ERC





European Research Council (ERC):

Since 2007: EU funding agency supporting <u>excellence</u> in frontier research through a <u>bottom-up</u>, <u>individual</u> based, pan-European <u>competition</u>



European Research Council
Established by the European Commission

Scientific Council

- 22 prominent scientists
 - President ad int: Prof. Jean-Pierre Bourguignon
 - Manuel Arellano (CEMFI)
 - Paola Bovolenta (CBM Severo Ochoa)
 - Mercedes Garcia Arenal CSIC
- Fix the scientific strategy and policy
- Annual Work Programme & Expert selection



Organise peer review evaluations & Grant Management / follow-up





Scientific Council

- Scientific Strategy
- Quality control
- **✓** Communication Strategy

https://erc.europa.eu/about-erc/erc-president-and-scientificcouncil



ERCEA

- ✓ Programme Implementation
- ✓ Management of the Grants

https://erc.europa.eu/about-erc/erc-executive-agency-ercea







INSTRUMENTOS DE FINANCIACIÓN DEL CONSEJO EUROPEO DE INVESTIGACIÓN







ERC Profile

STARTING GRANTS

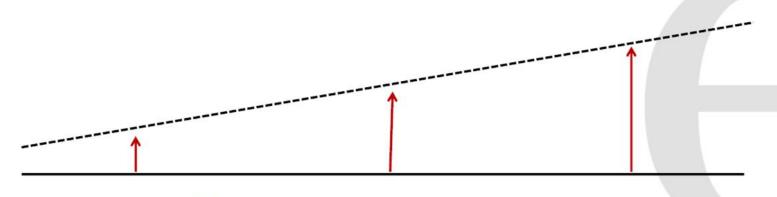
must have already shown the potential for research independence and evidence of maturity, e.g. at least one important publication as main author or without the participation of their PhD supervisor

CONSOLIDATOR GRANTS

must have already shown research independence and evidence of maturity, e.g. by having produced several important publications as main author or without the participation of their PhD supervisor.

ADVANCED GRANTS

researchers and to have a track record of significant research achievements















Consejo Europeo de Investigación (ERC): esquemas

STARTING GRANTS

- Hasta 1,5 M€ durante 5 años
- Investigadores con carrera prometedora
- 2 a 7 años experiencia posdoctoral

CONSOLIDATOR GRANTS

- Hasta 2 M€ durante 5 años
- Investigadores excelentes
- 7 a 12 años experiencia posdoctoral

ADVANCED GRANTS

- Hasta 2,5 M€ durante
 5 años
 Investica
 - Investigadores líderes ya establecidos
 - 10 últimos años carrera investigadora

SYNERGY GRANTS

- Hasta 10 M€ durante 6 años
- Abordar ambiciosos retos en coordinación
- 2 a 4 investigadores principales

PROOF OF CONCEPT

- 150.000 € durante 18 meses
- Para beneficiarios de ERC que quieran explorar el potencial de sus ideas en el mercado
- √ Financiación adicional
- Extensiones a la ventana de elegibilidad





FINANCIACIÓN ADICIONAL

- + Additional funding up to 1M€ when these are necessary to carry out the proposed work:
 - "start-up" costs for PIs moving to the EU or an Associated Country from elsewhere as a consequence of receiving the ERC grant and/or
 - the purchase of major equipment and/or
 - access to large facilities and/or
 - other major experimental and field work costs, excluding personnel costs.

All funding requested is assessed during evaluation.

These costs are justified separately in the proposal. There is no definition of "equipment" or "facilities" and all requests will be evaluated by the peer review panel.





EXTENSIONES A LA VENTANA DE ELEGIBILIDAD

Circumstances:

- Maternity: 18 months extension for each child born before or during the last ten years.
- Paternity: elapsed time of paternity leave taken until the call deadline for each child born before or during the last ten years.
- Long-term illness, clinical qualifications or national service: amount of leave taken by the Principal Investigator until the call deadline for each incident which occurred during the last ten years.





Minimum time commitment

Principal Investigators funded through the ERC frontier research grants must spend a minimum percentage of their working

time on the ERC project and a minimum percentage of their working time in an EU Member State or Associated Country as set out in the table below.

Minimum percentage of the working time of a Principal Investigator that must be spent	Starting Grant	Consolidator Grant	Advanced Grant
On the ERC project	50%	40%	30%
In an EU Member State or Associated Country ²⁴	50%	50%	50%





The Host Institution (HI)



Any type of **legal entity**, private or public (universities, research centres, business,...)

Based in one of the **EU Member States**, or one of the **Associated Countries**.

The PI does not necessarily need to be working at the Host Institution at the time when the proposal is submitted.

The HI is not an evaluation criteria but a HI commitment letter is needed with the proposal.

Must host and engage the PI for the whole duration of the action

Must guarantee the PI scientific independence

Must provide research support and administrative assistance (if granted)

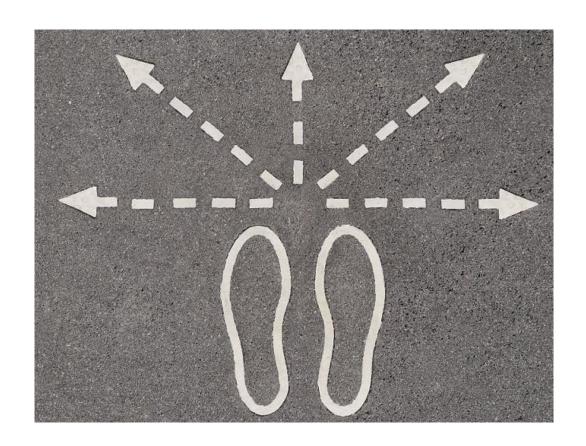


Signature of the Grant Agreement
Signature of a Supplementary Agreement with the PI





¿POR DÓNDE EMPIEZO?







1. ELIGE EL PANEL DE EVALUACIÓN

ERC Panel Structure 2021/2022

Physical Sciences & Engineering

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

https://erc.europa.eu/sites/default/files/docume nt/file/ERC_Panel_structure_2021_2022.pdf









Life Sciences (Revision on the descriptors)

- LS1 Molecules of Life: Biological Mechanisms, Structures and Functions
- LS2 Integrative Biology: from Genes and Genomes to Systems
- LS3 Cellular and Developmental Biology
- LS4 Physiology in Health, Disease and Ageing
- LS5 Neuroscience and Disorders of the Nervous System
- LS6 Immunity, Infection and Immunotherapy
- LS7 Prevention, Diagnosis and Treatment of Human Diseases
- LS8 Environmental Biology, Ecology and Evolution
- LS9 Biotechnology and Biosystems Engineering

Social Sciences and Humanities

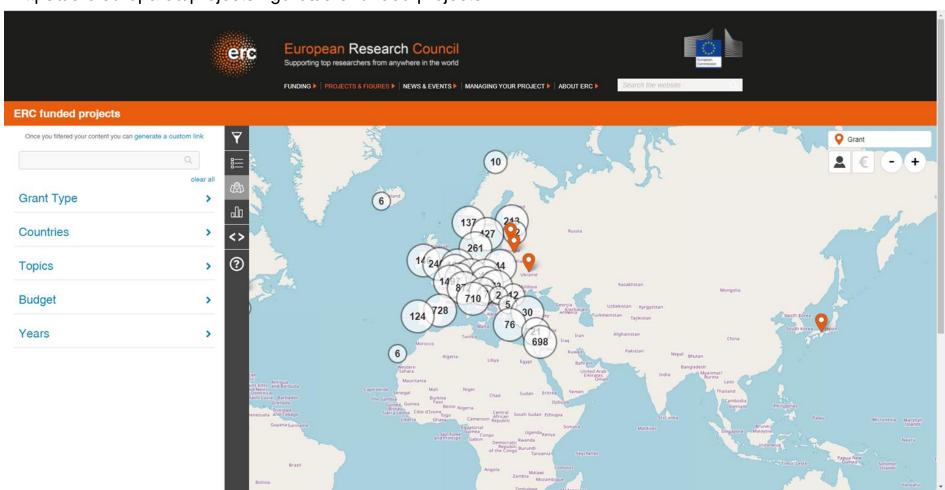
- SH1 Individuals, Markets and Organisa ons
- SH2 Institutions, Governance and Legal Systems
- SH3 The Social World and its Diversity
- SH4 The Human Mind and Its Complexity
- SH5 Cultures & Cultural Production
- SH6 The Study of the Human Past
- SH7 Human Mobility, Environment, and Space (New)





2. CONFIRMA TU ELECCIÓN DEL PANEL DE EVALUACIÓN: Proyectos e IPs financiados por cada panel

https://erc.europa.eu/projects-figures/erc-funded-projects







3. CONFIRMA TU ELECCIÓN DEL PANEL DE EVALUACIÓN: Miembros de cada panel



Home » News » Document Library » Search Results

DOCUMENT LIBRARY

Panel Chairs ERC Consolidator Grant 2021 23 Mar 2021 Panel members ERC Proof of Concept 2020 23 Mar 2021 Panel Chairs ERC Starting Grant 2021 11 Mar 2021 ERC Mentoring Initiative - ERC Guidelines 15 Feb 2021 Panel Members ERC Consolidator Grant 2020 26 Jan 2021 Panel Members ERC Starting Grant 2020 08 Oct 2020 Panel structure for ERC calls 2021 and 2022 28 May 2020 Revision of ERC panel structure - Rationale and main changes 28 May 2020

BROWSE DOCUMENTS BY CATEGORY

- ► Info for Applicants (115)
 - Evaluation panels (89)
 - ► Guides and Rules (11)
 - ► Grant Agreement (4)
 - ▶ List of reviewers (3)
- ▶ Info for Grant Holders (15)
- Info for Peer Reviewers (4)
- Work Programmes (16)
- Annual Reports-Statistics (246)
- Agency Finance (37)
- Legal Basis (21)
- Policy (141)
- ERC Independent reviews (16)
- Data Protection (86)
- Publications (46)
- Newsletters (28)

Clear all

Panel Members ERC Advanced Grant 2019





4. LEE DETALLADAMENTE LA DOCUMENTACIÓN











¿QUÉ DOCUMENTACIÓN TENGO QUE PREPARAR?





Parte A – Formularios online

- A1 General Information
- **A2 Participants**
- A3 Budget

table + description (8000c)

A4 Ethics and security

A5 Other questions

Exclusión hasta 3 evaluadores

Annexes

- HI support letter
- Ethics issues and security
- Eligibility window

<u>Part B1 – documento pdf</u>

- Cover Page and summary
- Extended Synopsis (5pags)
- Curriculum vitae (2pags)
- Scientific track-record (2p)

Part B2 – documento pdf (14pags)

- SoA & objectives
- Methodology





PARTE B1

Part B1 ACRONYM Applicant's last name ERC Consolidator Grant 2021 Research proposal [Part B1]1 (Part B1 is evaluated both in Step 1 and Step 2, Part B2 is evaluated in Step 2 only) Proposal Full Title PROPOSAL ACRONYM Cover Page:
- Name of the Principal Investigator (PI) Name of the PI's host institution for the project Proposal duration in months Text highlighted in grey should be deleted. Proposal summary (identical to the abstract from the online proposal submission forms, section 1). The abstract (ummany) should, at a glance, provide the reader with a clear understanding of the objectives of the research proposal and how they will be achieved. The abstract will be used as the short description of your research proposal in the evaluation process and in communications to contact in particular the potential remote referees and/or inform the Commission and/or the programme management committees and/or relevant national funding agencies (provided you give permission to do so where requested in the online proposal submission forms, section 1). It must therefore be short and precise and should not contain Please use a plain typed text, avoiding formulae and other special characters. The abstract must be written in English. There is a limit of 2000 characters (spaces and line breaks included). Explain and justify the cross-panel or cross domain nature of your proposal, if a secondary panel is indicated in the online proposal submission forms. There is a limit of 1000 characters, spaces and line Instructions for completing Part B1 can be found in the 'Information for Applicants to the Starting and Consolidator Grant 2021 Calls'.







Scientific track record (2 páginas)





SCIENTIFIC TRACK RECORD

Early achievements track record

STARTING GRANTS

In the Track record (see "Proposal description") the applicant Principal Investigator should list (if applicable):

- 1. Up to five publications in major international peer-reviewed multi-disciplinary scientific journals and/or in the leading international peer-reviewed journals, peer-reviewed conferences proceedings and/or monographs of their respective research fields, highlighting those as main author or without the presence as co-author of their PhD supervisor (properly referenced, field relevant bibliometric indicators may also be included); preprints may be included, if freely available from a preprint server (preprints should be properly referenced and either a link to the preprint or a DOI should be provided);
- 2. Research monographs and any translations thereof;
- Granted patent(s);
- 4. Invited presentations to internationally established conferences and/or international advanced schools;
- 5. Prizes, awards, academy memberships.

Early achievements track record

CONSOLIDATOR GRANTS

In the Track Record (see "Proposal description") the applicant Principal Investigator should list (if applicable):



- 1. Up to ten publications in major international peer-reviewed multi-disciplinary scientific journals and/or in the leading international peer-reviewed journals, peer-reviewed conferences proceedings and/or monographs of their respective research fields, highlighting those as main author or without the presence as co-author of their PhD supervisor (properly referenced, field relevant bibliometric indicators may also be included); preprints may be included, if freely available from a preprint server (preprints should be properly referenced and either a link to the preprint or a DOI should be provided);
- 2. Research monographs and any translations thereof;
- 3. Granted patent(s);
- 4. Invited presentations to internationally established conferences and/or international advanced schools;
- 5. Prizes, awards, academy memberships.

Ten-year track record

ADVANCED GRANTS

In the Track Record (see "Proposal description") the applicant Principal Investigator should list (if applicable):



- 1. Up to ten representative publications, from the last ten years, <u>as main author</u> (or in those fields where alphabetic order of authorship is the norm, joint author) in major international peer-reviewed multi-disciplinary scientific journals and/or in the leading international peer-reviewed journals and peer-reviewed conference proceedings of their respective research fields (properly referenced, field relevant bibliometric indicators may also be included); preprints may be included, if freely available from a preprint server (preprints should be properly referenced and either a link to the preprint or a DOI should be provided);
- 2. Research monographs and any translations thereof;
- 3. Granted patents;
- 4. Invited presentations to internationally established conferences and/or international advanced schools:
- 5. Research expeditions that the applicant Principal Investigator has led;
- Organisation of international conferences in the field of the applicant (membership in the steering and/or organising committee);
- 7. Prizes, awards, academy memberships;
- 8. Major contributions to the early careers of excellent researchers;
- 9. Examples of innovation leadership.







PARTE B2

Applicant's last name ACRONYM ERC Consolidator Grant 2021 Part B21 (not evaluated in Step 1) Sections (a) and (b) of Part B2 should not exceed 14 pages. References do not count towards the page limits. Text highlighted in gray should be deleted. Please respect the following formatting constraints: Times New Roman, Arial or similar, at least font size II, margine IO, om side and I. S. to mp and bottom), single line spacing. Section a. State-of-the-art and objectives Section b. Methodology Instructions for completing Part B2 can be found in the 'Information for Applicants to the Starting and Consolidator Grant 2021 Calls'.



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



Section b. Methodology







EU contribution and management of the grant

An ERC grant can cover up to **100% of the total eligible direct costs** of the research **plus 25%** contribution towards **indirect costs**.

Direct costs:

- Personnel costs (PI + research team)
- Equipment (depretiation according HI rules)
- Consumables
- Travels, publications,...
- Se aplican las reglas de la Host Institution
- Flexibilidad: se aceptan modificaciones mediante enmiendas al acuerdo de subvención
- Informes (2) Informes científicos a la mitad y final del proyecto
 - (4) Financieros cada 18 meses
- Las ayudas reciben entre 25-40% de pre-financiación
- Gestión de los fondos por parte del IP
- Las ayudas son portables







Research Team

Describe the size and nature of the team, indicating, where appropriate, the key team members and their roles. The participation of team members engaged by other host institutions should be justified and in relation to the additional financial costs this may impose. When estimating the personnel costs take into account the dedicated working time to run the project.

Principal Investigator









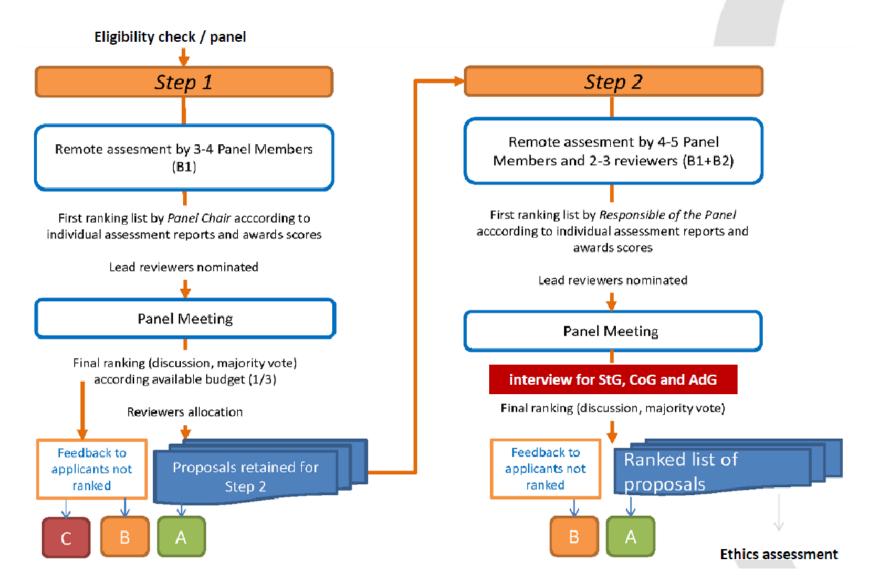
PROCESO DE EVALUACIÓN







ERC Evaluation process





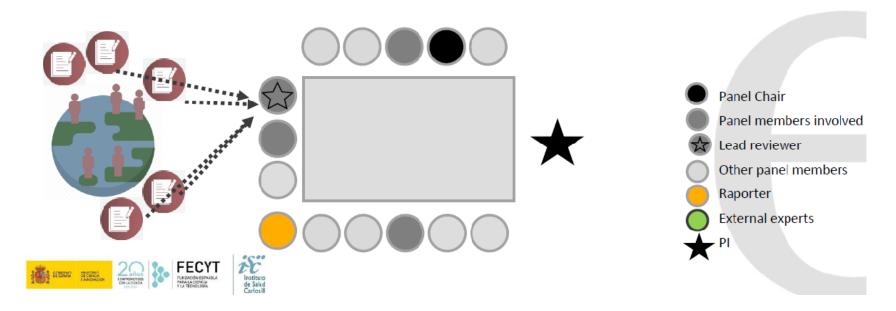


The interview

Presentation (3-10 min.) + Question (15 min) = Total 30min
Panel members: Top Science Experts , but possibly no expert in your field
Reports from Top Science Experts in your field
Consensus must be reached

Challenges:

Present your project to general audience Answer technical questions from experts Answer broad questions from non-experts







Excellence is the sole evaluation criteria

applied to the PI + Research Project

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 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)?

To what extent is the proposed research high risk-high gain (i.e. if successful the payoffs will be very significant, but there is a high risk that the research project does not entirely fulfil its aims)?

Scientific Approach

To what extent is the outlined scientific approach feasible bearing in mind the extent that the proposed research is high risk/high gain (based on the Extended Synopsis)?

To what extent are the proposed research methodology and working arrangements appropriate to achieve the goals of the project (based on the full Scientific Proposal)? To what extent does the proposal involve the development of novel methodology (based on the full Scientific Proposal)?

To what extent are the proposed timescales, resources and PI commitment adequate and properly justified (based on the full Scientific Proposal)?





B1

2. Principal Investigator StG, CoG and AdG Intellectual capacity and creativity

Impact

To what extent has the PI demonstrated the ability to conduct ground-breaking research?

To what extent does the PI provide evidence of creative independent thinking?

To what extent does the PI have the required scientific expertise and capacity to successfully execute the project?

Independence

Feasibility

To what extent has the PI demonstrated sound leadership in the training and

advancement of young scientists?

Only for AdG





CALENDARIO CONVOCATORIAS

European Research Council Established by the European Commission

2021-2022 Calls Calendar

			Consolidator Grant		Advanced Grant		Synergy Grant
WP	2021	2022	2021	2022	2021	2022	2022
Open	25/02/2021	23/09/2021	11/03/2021	19/10/2021	20/05/2021	20/01/2022	15/07/2021
Closure	08/04/2021	13/01/2022	20/04/2021	17/03/2022	31/08/2021	28/04/2022	10/11/2021
Budget	619 M	757 M	633 M	784 M	626 M	561 M	300 M

	Proof of Concept				
WP	2022	2022			
Open	15/07/2021	16/11/2021			
Cut-off dates or closure	14/10/2021	15/02/2022 19/05/2022 29/09/2022			
Budget	EUR 25 M	EUR 25 M			





ÚLTIMAS RECOMENDACIONES







- No te autoexcluyas de participar en una convocatoria ERC. Analiza tu CV frente al de los posibles "competidores" y decide cuándo participar.
- Identifica los puntos fuertes de tu CV y prepara una hoja de ruta para mejorar los puntos débiles
- ✓ Si tienes una idea rompedora, que crees que podría suponer un cambio en tu ámbito científico (y/o en otros), anímate a escribir un proyecto ERC.





- ✓ Olvida los templates y piensa en tu idea sin límites
- Asume riesgos, explica el impacto potencial de tu idea y da evidencias de que puedes lograrlo.
- ✓ Evita el continuismo respecto a tu actividad investigadora actual, deja patente el salto cualitativo que supondría tu proyecto ERC.
- ✓ Si no lo consigues a la primera, vuelve a intentarlo.







Estoy a vuestra disposición para ayudaros a participar en Horizonte Europa.













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