

India Country Page

1. Participation and Funding of Indian Entities in Horizon 2020

The EU's research and innovation framework programme 'Horizon 2020' (2014-2020), is fully **open to participation of entities from across the world** in all parts of the programme, and many topics are flagged as being specifically relevant for cooperation with partners outside Europe such as India.

Indian researchers, universities, research organisations and enterprises are able to team up with any European partners to participate in projects under Horizon 2020 and make the best use of Europe's scientific excellence. Through participation in Horizon 2020, Indian participants can gain great benefits from access to excellent talent, knowledge, data and infrastructures and connection to world-leading teams, networks and value chains.

As to funding, participants from India, just like the other emerging economies (BRIC) are **no longer automatically eligible for funding**. Indian participants have therefore to find the financial resources for their participation in Horizon 2020 collaborative projects. These could be own funds or funds from Indian ministries, foundations and other organisations that fund international research and innovation activities. Contributions can also be made in kind. In exceptional circumstances, funding can be received if the participation is essential for the execution of the project.

For this purpose, the Indian Department of Science (DST), the Indian Department of Biotechnology (DBT) and the Ministry of Earth Sciences (MoES) have established a Co-Funding Mechanism (CFM) to fund the successful Indian participants in a number of pre-identified calls of proposals.

2. List of Co-Funded calls under Horizon 2020 Work programmes 2018-2020

2.1 Calls co-funded by DBT: see hereunder first series of calls from the Horizon 2020 Work Programmes 2018-2020 which DBT agreed to co-fund. The detailed information on the co-funding modalities for Indian researchers, can be found on DBT website: http://www.dbtindia.nic.in/dbt-ec_h2020_call_2017-18/

List of calls under Horizon 2020 co-funded by DBT in 2018

Theme	CALL NAME / TOPIC (click topic name to follow link)	Type of Action & Model	Opening date	1st Stage Deadline	2nd Stage Deadline
Biotechnology (NMBP)	BIOTEC-03-2018: Synthetic biology to expand diversity of nature's chemical production (RIA)	two-stage-RIA	31/10/2017	23/01/2018 17:00 CET	28/06/2018 17:00 CET
Biotechnology (NMBP)	NMBP-22-2018: Osteoarticular tissues regeneration (RIA)	two-stage-RIA	31/10/2017	23/01/2018 17:00 CET	28/06/2018 17:00 CET
RURAL RENAISSANCE (SC2)	DT-RUR-12-2018: ICT Innovation for agriculture – Digital Innovation Hubs for Agriculture	single-stage-IA	31/10/2017	13/02/2018 17:00 CET	
RURAL RENAISSANCE (SC2)	RUR-14-2018: Digital solutions and e-tools to modernise the CAP	single-stage-IA	31/10/2017	13/02/2018 17:00 CET	

FOOD SECURITY (SC2)	CE-SFS-25-2018: Integrated system innovation in valorising urban biowaste	single-stage-IA	31/10/2017	13/02/2018 17:00 CET	
FOOD SECURITY (SC2)	SFS-01-2018-2019-2020: Biodiversity in action: across farmland and the value chain	two-stage-RIA	31/10/2017	13/02/2018 17:00 CET	11/09/2018 17:00 CET
FOOD SECURITY (SC2)	SFS-05-2018-2019-2020: New and emerging risks to plant health	two-stage-RIA	31/10/2017	13/02/2018 17:00 CET	11/09/2018 17:00 CET
FOOD SECURITY (SC2)	SFS-06-2018-2020: Stepping up integrated pest management	two-stage-RIA	31/10/2017	13/02/2018 17:00 CET	11/09/2018 17:00 CET
FOOD SECURITY (SC2)	SFS-08-2018-2019: Improving animal welfare	two-stage-RIA	31/10/2017	13/02/2018 17:00 CET	11/09/2018 17:00 CET
FOOD SECURITY (SC2)	SFS-11-2018-2019: Anti-microbial and animal production	two-stage-RIA	31/10/2017	13/02/2018 17:00 CET	11/09/2018 17:00 CET
FOOD SECURITY (SC2)	SFS-32-2018: Supporting microbiome coordination and the International Bioeconomy Forum	single-stage-RIA	31/10/2017	13/02/2018 17:00 CET	
FOOD SECURITY (SC2)	SFS-38-2018: Highly efficient management of soil quality and land resources	two-stage-RIA	31/10/2017	13/02/2018 17:00 CET	11/09/2018 17:00 CET
Biotechnology (NMBP)	CE-BIOTEC-04-2018: New biotechnologies for environmental remediation	single-stage-RIA	31/10/2017	25/04/2018 17:00 CET	
HEALTH (SC1)	SC1-BHC-16-2018: Global Alliance for Chronic Diseases (GACD) - Scaling-up of evidence-based health interventions at population level for the prevention and management of hypertension and/or diabetes	single-stage-RIA	07/11/2017	18/04/2018 17:00 CET	
HEALTH (SC1)	SC1-BHC-18-2018: Translational collaborative cancer research between Europe and the Community of Latin American and Caribbean States (CELAC)	single-stage-RIA	07/11/2017	18/04/2018 17:00 CET	
HEALTH (SC1)	SC1-BHC-21-2018: Research on HIV, tuberculosis (TB) and/or hepatitis C (HCV) in patients with mono-, co-infections and/or comorbidities in the context of fostering collaboration with the Russian Federation	single-stage-RIA	07/11/2017	18/04/2018 17:00 CET	
BIO-ENERGY (SC3)	LC-SC3-RES-22-2018: Demonstration of cost effective advanced biofuel pathways in retrofitted existing industrial installations	single-stage-IA	05/12/2017	05/04/2018 17:00 CET	

2.2 Calls co-funded by the Ministry of Earth Sciences (MoES): see hereunder the calls from the Horizon 2020 Work Programme 2018-2020, which MoES agreed to co-fund. The detailed information on the co-funding modalities for Indian researchers, can be found on MoES website: <http://www.moes.gov.in/writereaddata/files/Webnotice%20.pdf>

The calls are listed in the priority of the call deadlines:

Topic	Details	Type of Action	Opening and Closing date
LC-CLA-08-2018: Addressing knowledge gaps in climate science, in support of IPCC reports	Actions should address <u>only one</u> of the following sub-topics: a) Improving the understanding of key climate processes for reducing uncertainty in climate projections and predictions b) Tipping points: Actions should result in better understanding of abrupt climate change c) Ice-core drilling in East Antarctica	RIA- Research and Innovation action	Opening date: 07 November 2017 Deadline: 27 February 2018 2 nd stage Deadline: 04 September 2018
LC-CLA-07-2019: The changing cryosphere: uncertainties, risks and opportunities (targeted towards India)	RIA should aim at developing innovative approaches to address <u>only one</u> of the following sub-topics: a) Sea-level changes b) Changes in Arctic biodiversity c) Sustainable opportunities in a changing Arctic	RIA- Research and Innovation action	Opening date: 14 November 2018 Deadline: 19 February 2019 2 nd stage Deadline: 04 September 2019

Calls to be co-funded by DST in the Horizon 2020 Work Programme 2018-2020 are under discussion and will be published soon.

2.3 EU-India Flagship Initiative on Water Research

An EU-India Water Flagship Initiative in Research and Innovation has been launched to address the water challenges India is facing.

In this call, the **participation of Indian entities is mandatory**: each consortium should, as a minimum, have three entities from Europe (Member States and/or countries associated to Horizon 2020) and three from India. The call amounting to a total of €30 million is co-funded by both sides: €15 million from the EU and €15 million by India (€10 million from DST and €5 million from DBT).

Funded projects should develop new and/or adapt the most suitable existing innovative and affordable solutions for Indian conditions, both in urban and rural areas, by addressing one or more of the following broad challenges:

- (i) Drinking water purification with a focus on emerging pollutants;
- (ii) Waste water treatment, with scope for resource/energy recovery, reuse, recycle and rainwater harvesting, including bioremediation technologies;
- (iii) Real time monitoring and control systems in distribution and treatment systems.

The centre of gravity of the action is expected at the **Technology Transfer Level (TRL) 3-6**.

The complete call text can be found in:

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/sc5-12-2018.html>

The guidelines for participation and funding of the Indian co-funded participants are available on the websites of respectively:

- Department of Science & Technology (DST): <http://www.dst.gov.in/callforproposals/eu-india-water-cooperation-research-and-innovation-joint-call-proposals-2017-2018>
- Department of Biotechnology (DBT): <http://www.dbtindia.nic.in/india-eu-water-call-2017-2018/>
- Ministry of Earth Sciences (MoES): <http://www.moes.gov.in/writereaddata/files/Webnotice%20.pdf>

3. Calls Targeting The Participation of India

Throughout the Horizon 2020 Work Programmes for 2018-2020, a number of calls for proposals are specifically targeting India:

	Topic identifier	Topic title
2018	INFRAIA-01-2018-2019	Integrating Activities for Advanced Communities
	LC-MG-1-3-2018	Harnessing and understanding the impacts of changes in urban mobility on policy making by city-led innovation for sustainable urban mobility
	LC-MG-1-1-2018:	InCo flagship on reduction of transport impact on air quality
	LC-SC3-ES-3-2018-2020	Integrated local energy systems (Energy islands)
2019	LC-CLA-07-2019	The changing cryosphere: uncertainties, risks and opportunities
	MG-2-9-2019	InCo Flagship on Integrated multimodal, low-emission freight transport systems and logistics
	SU-SPACE-22-SEC-2019	Space Weather

Calls targeting India means that participation of India is welcomed but is not mandatory (unlike in the case of the above flagship call on Water).

India has not yet agreed to co-fund the successful entities in these calls (discussions are ongoing).

4. Marie Skłodowska Curie Actions (MSCA) Open For Indian Participation And Funding

Indian researchers are eligible for MSCA fellowships (PhD/Post-Doc). Indian research centres, universities and private companies performing research can also host European MSCA fellows through a Global Fellowship Scheme or participate in Research Networks (ITN) and Research and Innovation Staff Exchanges (RISE).

For more details: <https://ec.europa.eu/research/mariecurieactions/>

5. European Research Council (ERC) Grants

The ERC aims to fund the best research undertaken by the best researchers of any nationality at any research institute or university in Europe (Member State or country associated to Horizon 2020). Excellence is the only evaluation criterion (excellence of the PI and excellence of the research project). ERC is open to all disciplines and calls are bottom up. Interdisciplinary proposals are encouraged.

For more details see: <https://erc.europa.eu/>

In addition, an '**Implementing Arrangement**' between the European Commission (EC) and the Science and Engineering Research Board (SERB), allowing Indian researchers to join and collaborate with an ERC Principal Investigators (PIs) in Europe, was signed on 6th October 2017. This arrangement allows for short term (6 -12 months) collaboration opportunities between an ERC Team and Indian researcher beneficiary of a SERB grant.

For details on this 'Implementing Arrangement', see <https://erc.europa.eu/funding/additional-opportunities> or write to ERC-IMPLEMENTING-ARRANGEMENTS@ec.europa.eu or visit the SERB website <http://www.serb.gov.in/home.php>

6. Website of The Delegation of The EU to India And Functional Mailbox

- Delegation of the European Union to India: https://eeas.europa.eu/delegations/india_en
- Questions may be addressed to the Delegation e-mail: DELEGATION-INDIA-RI@eeas.europa.eu
- A guide for Indian users: http://eeas.europa.eu/archives/delegations/india/documents/h2020_brochure-india-aug_2014.pdf

7. Local National Contact Points and Other Assistance Service

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