

Topic Preview 2018–2020

Horizon 2020 Work Programme

“Food Security, Sustainable Agriculture and Forestry, Marine and Maritime and Inland Water Research and the Bioeconomy & Biotechnology”

1. Calls and Topics

Every thematic area under Horizon 2020 has its own Work Programme. Work Programmes are divided into calls and corresponding topics.

Several projects may be funded under one topic, depending on the total budget. Proposal evaluation results can be expected 5 months after the submission deadline. The time limit for signing the grant agreement is usually 3 months.

The Work Programme [“Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy”](#) consists of the following calls:

- **SUSTAINABLE FOOD SECURITY (SFS):** to manage our resources wisely to nourish people sustainably
- **BLUE GROWTH (BG):** to understand, preserve and valorise oceans
- **RURAL RENAISSANCE (RUR):** to develop smarter, greener, circular rural economies
- **FOOD AND NATURAL RESOURCES (FNR):** to bridge towards the next European Framework Programme for Research and Innovation

BIOTECHNOLOGY (BIOTEC) calls are part of the Work programme [“Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing”](#).

SUSTAINABLE FOOD SECURITY (SFS) Call				
Topic Identifier	Topic Title	Type of Action	Budget per Project (Mio €)	Deadline
FROM FUNCTIONAL ECOSYSTEMS TO HEALTHY FOOD				
SFS-01-2018-2019-2020	Biodiversity in action: across farmland and the value chain Subtopic [C]: From agrobiodiversity to dynamic value chains	RIA	6	22 January 2020 (stage 1)
SFS-02-2020	Healthy terrestrial livestock microbial ecosystems for sustainable production	RIA	10	22 January 2020 (stage 1)
SFS-04-2019-2020	Integrated health approaches and alternatives pesticide use Subtopic [B]: Alternative to contentious pesticides	IA	5	22 January 2020
SFS-05-2018-2019-2020	New and emerging risks to plant health	RIA	7	22 January 2020 (stage 1)
SFS-06-2018-2020	Stepping up integrated pest management, Subtopic [B]: EU wide demonstration farm network	CSA	6	22 January 2020
SFS-10-2020	Epidemiology of non-EU-regulated contagious animal diseases: from integrated data collection to prioritization	RIA	10	22 January 2020 (stage 1)
SFS-13-2020	Genome and epigenome enabled breeding in terrestrial livestock	RIA	7	22 January 2020 (stage 1)
ENVIRONMENT AND CLIMATE-SMART FOOD PRODUCTION AND CONSUMPTION				
SFS-21-2020	Emerging challenges for soil management Subtopic [A]: Soil biodiversity assessment Subtopic [B]: Use of plastic in agriculture	RIA	[A]: 7 [B]: 7	22 January 2020 (stage 1)
LC-SFS-22-2020	Forest soils Research and Innovation Action	RIA	10	22 January 2020 (stage 1)
BUILDING CAPACITIES				
SFS-28-2018-2019-2020	Genetic resources and pre-breeding communities	IA	7	22 January 2020
SFS-30-2018-2019-2020	Agri-Aqua Labs, Subtopic [C]: Plant energy biology	RIA	5	22 January 2020 (stage 1)

TARGETED INTERNATIONAL COOPERATION				
SFS-35-2019-2020	Sustainable Intensification in Africa, Subtopic [C]: Vector-borne diseases in Africa	RIA	6	22 January 2020 (stage 1)
CE-SFS-36-2020	Diversifying revenue in rural Africa through bio-based solutions	RIA	9	22 January 2020 (stage 1)
SFS-40-2020	Healthy soils for healthy food production (Part of the EU-China FAB Flagship Initiative)	RIA	5	22 January 2020 (stage 1)

BLUE GROWTH (BG) Call				
Topic Identifier	Topic Title	Type of Action	Budget per Project (Mio €)	Deadline
BG-07-2019-2020	The Future of Seas and Oceans Flagship Initiative Subtopic [C]: Technologies for observations	IA Lump Sum	9	22 January 2020
BG-10-2020	Fisheries in the full ecosystem context	RIA	8	22 January 2020 (stage 1)
BG-11-2020	Towards a productive, healthy, resilient, sustainable and highly-valued Black Sea	RIA	9	22 January 2020 (stage 1)

RURAL RENAISSANCE (RUR) Call				
Topic Identifier	Topic Title	Type of Action	Budget per Project (Mio €)	Deadline
FROM FARM TO SOCIETY: UNDERSTANDING DYNAMICS AND MODERNISING POLICIES				
RUR-21-2020	Agricultural markets and international trade in the context of sustainability objectives	RIA	4	22 January 2020 (stage 1)
ORGANISING SUSTAINABLE FOOD AND NON-FOOD VALUE CHAINS UNDER CHANGING CONDITIONS				
RUR-05-2020	Connecting consumers and producers in innovative agri-food supply chains	RIA	3	22 January 2020
RUR-06-2020	Innovative agri-food value chains: boosting sustainability-oriented competitiveness	IA	7	22 January 2020

RUR-07-2020	Reducing food losses and waste along the agri-food value chain	IA	6	22 January 2020
CE-RUR-08-2018-2019-2020	Closing nutrient cycles Subtopic [C]: Bio-based fertilisers from other by-products of the agrofood, fisheries, aquaculture or forestry sector Subtopic [D]: Bio-based fertilisers from waste water and sewage sludge	[C]: IA [D]: RIA	[C]: 8 [D]: 6	IA: 22 January 2020 RIA: 22 January 2020 (stage 1)
LC-RUR-11-2019-2020	Sustainable wood value chains Subtopic [B]: Resilient forest systems	RIA	5	22 January 2020 (stage 1)

FOOD AND NATURAL RESOURCES (FNR) Call

Topic Identifier	Topic Title	Type of Action	Budget per Project (Mio €)	Deadline
FNR-01-2020	Strengthening the European agro-ecological research and innovation ecosystem	CSA	2	22 January 2020
FNR-02-2020	Developing long-term monitoring and evaluation frameworks for the Common Agricultural Policy	CSA	2	22 January 2020
FNR-03-2020	A comprehensive vision for urban agriculture	CSA	2	22 January 2020
FNR-04-2020	Towards a European research and innovation roadmap on soils and land management	CSA	1	22 January 2020
FNR-05-2020	Husbandry for quality and sustainability Subtopic [A]: Husbandry for sustainability Subtopic [B]: Husbandry for quality	RIA	[A]: 9 [B]: 6	22 January 2020 (stage 1)
LC-FNR-06-2020	Defossilising agriculture – solutions and pathways for fossil-energy-free farming Subtopic [A]: Pathways for a fossil-energy-free agriculture Subtopic [B]: Close-to-market solutions for fossil-energy-free farming	[A]: CSA [B]: IA	[A]: 2 [B]: 5	22 January 2020
FNR-07-2020	FOOD 2030 - Empowering cities as agents of food system transformation	IA	12	22 January 2020
FNR-08-2020	Supporting the food safety systems of the future	CSA	3	22 January 2020

CE-FNR-09-2020	Pilot action for the removal of marine plastics and litter	IA	6	22 January 2020
FNR-10-2020	Public engagement for the Bioeconomy	CSA	1	22 January 2020
FNR-11-2020	Prospecting aquatic and terrestrial natural biological resources for biologically active compounds Subtopic [A]: Prospecting terrestrial natural biological resources for biologically active compound Subtopic [B]: Prospecting aquatic natural biological resources for biologically active compounds	RIA	[A]: 7.5 [B]: 7.5	22 January 2020 (stage 1)
FNR-12-2020	Industrial microbiomes - learning from nature	RIA	6	22 January 2020 (stage 1)
LC-FNR-13-2020	Bio-based industries leading the way in turning carbon dioxide emissions into chemicals	RIA	7	22 January 2020 (stage 1)
CE-FNR-14-2020	Innovative textiles - Reinventing fashion	IA	7	22 January 2020
CE-FNR-15-2020	A network of European bioeconomy clusters to advance bio-based solutions in the primary production sector	CSA	2	22 January 2020
FNR-16-2020	Enzymes for more environment-friendly consumer products	RIA	6	22 January 2020 (stage 1)
CE-FNR-17-2020	Pilot circular bio-based cities - sustainable production of bio-based products from urban biowaste and wastewater	IA	8	22 January 2020
FNR-18-2020	Sustainability of bio-based products - international governance aspects and market update	CSA	1.5	22 January 2020

BIOTECHNOLOGY (BIOTEC) Call

Topic Identifier	Topic Title	Type of Action	Budget per Project (Mio €)	Deadline
BIOTEC-06-2020	Reprogrammed microorganisms for biological sensors Baseline TRL: 3, target TRL: 6	IA	6-8	12 December 2019
BIOTEC-07-2020	Multi-omics for genotype-phenotype associations Baseline TRL: 4, target TRL: 6	RIA	6-8	12 December 2019

CE-BIOTEC-08-2020	New biotechnologies to remediate harmful contaminants Baseline TRL: 3, target TRL: 6	RIA	4-5	15 April 2020
CE-BIOTEC-09-2020	Upcycling Bio Plastics of food and drinks packing Baseline TRL: 3, target TRL: 6	RIA	6-8	12 December 2019

BIO-BASED INDUSTRIES JOINT UNDERTAKING (BBI JU)

Public-private partnership between the European Union and the Bio-based Industries Consortium (BIC). Operating under Horizon 2020.

The European Union is represented by the European Commission (EC). BIC is a non-profit organisation that was created to represent the group of industries that supports the BBI JU.

Complementarities with other parts of Horizon 2020 such as Societal Challenge 2, the biotechnology area of the Leadership in Enabling and Industrial Technologies (LEIT) are to be encouraged.

Call opened: 4 April 2019

Call deadline: 4 Sept 2019

[Topics](#)

<https://www.bbi-europe.eu/>

2. More Information on Calls and Topics

Funding and Tender Opportunities Portal

The [Funding and Tender Opportunities Portal](#) is the online entry point for Horizon 2020 applicants. The portal provides the full topic texts, updates, links to regulations etc.

Work Programme (PDF Version)

In addition to the Funding and Tender Opportunities Portal, the PDF version of the Work Programmes ([Food and Agriculture](#) / [Biotechnology](#)) provide further information on the topic texts (introduction to the policy background, budget overview etc.).

3. Types of Actions

Type of Action (Abbr.)	Type of Action	Funding Rate	Conditions	Comment
RIA	Research & Innovation Actions	100%	≥ 3 legal entities from ≥ 3 MS/AC*	Establish new knowledge and/or explore the feasibility of a new or improved technology
IA	Innovation Actions	70% (100% for public & non-profit bodies)	≥ 3 legal entities from ≥ 3 MS/AC*	Produce plans & arrangements or designs for new, altered or improved products, processes or services
CSA	Coordination and Support Actions	100%	≥ 1 legal entity from ≥ 1 MS/AC*	Actions consisting primarily of accompanying measures (coordination, support, standardisation, dissemination etc.)

*MS: Member State, AS: Associated Country

4. International Online Partnering Services

Provider	Platform
Euresearch	Overview of Partnering Platforms
European Commission	Funding and Tender Opportunities Portal
European Commission	CORDIS
Enterprise Europe Network (EEN)	Swiss EEN - Innosuisse

5. Further Questions

For all open issues related to this Work Programme, do not hesitate to contact:

Your Euresearch Office in the Region for questions regarding formal and administrative matters (proposal submission, eligibility criteria, budgeting, etc.)

[Office in your Region](#)

Your National Contact Point for questions concerning the scientific aspects of your proposal.

[National Contact Point](#)