Incentives and grants

Biotechnology, Pharmacy and Life Sciences Sector in Spain

April 2019 Edition
This guide mainly focuses on gathering information regarding calls and grants for the biotechnology sector, with the intention that it will be useful for improving competitiveness, innovation, enterprise development and biotechnology-based projects.
This document includes information regarding initiatives and incentives aimed to foster the biotechnology sector.

**Part II of the document** includes a list of specific calls for the biotechnology sector as well as a list of calls related to the R & D + i sector that can be useful for the biotechnology sector. In this section we firstly identify each call and then provide more in depth information. The reader can access the specific details related to each call by clicking the link Call sheet.

The list of calls is classified as follows:

- Specific calls for the biotechnology sector: This section includes calls and grants specifically destined to the biotechnology sector.
- Calls for the promotion of R & D + i that can be useful for the biotechnology sector.
- Calls classified according to their geographical location and scope that have been classified as follows:
  - European.
  - State.
  - Autonomic.
Part III of document includes the currently available calls for the biotechnology sector with open submission deadlines at the time of writing this monograph.

Therefore, a record for each of the identified grants has been developed so that the reader can check each call one by one. The contents of each call sheet is structured as follows:

**Name of the call**

The name of the call in question is included.

**Purpose of the aid**

It details in a timely manner the purpose for which the aid was intended and what problems or challenges are intended to be solved or addressed.

**Type of help**

Specifies the financial mode that governs the help. For example, in the case of non-refundable grants, loans, or even if it is possible to combine both alternatives or some other modality.

**Beneficiaries**

It refers to the type of entities that may submit applications: consortia and associations of companies, individual entrepreneur, mercantile society, others (universities, technological or research centers, public administrations, non-governmental organizations, etc.).

**Description of the help**

It includes a more detailed description of the aid and the concepts and actions it finances. It also contains summary information on the requirements and characteristics that must be met by the projects that are financed within it.
**Term of validity of the call**

It temporarily delimits the deadline for submitting applications, indicating the start and end date of the call, as well as identifying whether the call is a single stage or if it consists of several cuts (multiple cut-off).

**Link for more information**

It refers to the link of the rules of the call, so that those interested in obtaining more information can consult it. *(Bases, Call, etc.)*

There are several calls that even if they have not been designed specifically for the biotechnology sector, they can be useful for in the biotechnology area. They are generic aids for addressing employment, improving competitiveness and adoption of ICT issues. We strongly encourage the reader to check the document published by the ICEX portal InvestInSpain namely "Aid and incentives for hiring", as well as the "Monthly guidelines on current calls" published periodically in the InvestInSpain website. Furthermore, and taking into account that most of the specific calls related to the biotechnology industry are included under the European Union Horizon 2020 Program, we encourage the reader to consult the first part of the manual published by ICEX for submitting projects to be granted by the H2020 Program "Horizon 2020 Guide" which offers practical information on the operation of this Program.
PART II: CLASSIFICATION OF CALLS
### Part II.A. Specific calls for the biotechnology industry

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### STATE AID

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| CDTI - strategic R & D                                        | Undefined           | Call Sheet         |
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| Aids for the training of doctors in companies “Industrial Doctorates”. (last call info) | closed              | Call Sheet         |
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### AUTONOMOUS COMMUNITIES CALLS – Cantabria

<p>| Call for the Innova Plus 2019 Grants Line.                     | 16/05/2019           | Call Sheet         |</p>
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PART III: INFORMATION SHEETS OF CALLS
Specific aid for the Biotechnology, Pharmacy and Life Sciences Sector

H2020-Bio-based Industries: BBI2019.SO1.D1 – Scale up conversion of lignin into valuable compounds for application in specific market sectors

Purpose of the aid
Expanding the use of lignin as a feedstock for conversion into chemicals and materials such as fibres, resins and composites, is being researched and developed through the use of several technologies. Some of these technologies are proving themselves at pilot level.

The applicability of lignin-based materials is enormous because of their high versatility and variety. Market actors in various sectors are demanding suitable quantities of lignin-based products at specified qualities to test application in their end products. Industry needs to scale up the developed technologies in an industrial setting and prove their technical and economic feasibility in dedicated value chains. While delivering higher quantities of the targeted products, industry also needs to achieve and validate the performance of the products intended to meet market demand. Achieving both quantity and quality as required by the market, will set the basis for an extensive uptake of lignin-based products.

The specific challenge is to demonstrate the efficient and sustainable conversion of lignin into compounds (intermediates and/or final products) that are applicable in a variety of market applications.

Type of aid
Subsidies and grants

Beneficiaries
Consortiums and associations of undertakings

Description of the aid
It is part of the Bio-based Industries initiative within the actions of public-private collaboration Joint Technology Initiative.

For the purposes of the BBI JU calls, two different types of organisations are eligible and distinguished according to their sector:

- Academic sector;
- Non-academic sector

It is mandatory that at least 3 entities from 3 different countries collaborate, according to the participation rules of the H2020 program.

This call finances innovation actions, so that both large industries and SMEs are eligible for funding, with an aid intensity of 70%. The intensity of
aid for non-profit entities is 100%.

The activities to be carried out in the context of Innovation Actions – "Demonstration" actions include:

- demonstration activities, focusing mainly on optimization of flows and cost reduction. Such demonstration activities could include engineering and testing operational conditions that have been identified at research and pilot scale to optimize productivity. Monitoring, data collection and analysis is considered critical during this phase;
- plant design, set-up and optimization of operations to reach the project objectives;
- management activities linking together all the project components and maintaining communications with the BBI JU;
- other activities including dissemination and exploitation

The following costs are financed:

- Personnel costs (template or hired specifically for the project)
- Other costs (inventory materials, fungible, publications, travel and subsistence)
- Outsourcing
- Indirect costs (fixed rate 25%)

Term of validity of the call

Opening date: 04/04/2019
Application deadline: 04/09/2019

Link for more information

Call.

Region in which the project can be developed

European Union
Due to their high productivity and their potential for avoiding competition with arable lands, microalgae are regarded as a valuable feedstock for biorefining operations. Microalgae are a potential source of molecules for a wide range of novel high-value products in different applications such as energy, fuel, food, feed, pharmaceutical and cosmetics. However, their current production scale and costs are holding back full-scale commercialisation steps. The main challenges regard: (i) efficiency of the cultivation method (in terms of growth rate and product synthesis rate); (ii) harvesting and separation of the microalgal biomass from the culture medium; (iii) pre-treatment of the algal biomass to release its components (mainly lipids, proteins, carbohydrates) for further conversion; and (iv) the further conversion steps themselves.

Growth rate and productivity of microalgae are affected by a number of factors such as availability of nutrients in the right amounts and compositions, presence of actinomycetes or other fungi, pH, light intensity and temperature. Open pond systems have relatively low capital costs and high scalability but may feature uneven mixing and nutrition conditions and are vulnerable to contamination and intrusion of alien species. Photobioreactor and closed-loop systems allow to better control growth conditions, but on the other hand require higher capital costs as well as higher maintenance costs.

Harvesting of microalgae is challenging and expensive due to small cell size and relatively low concentration. Several pre-treatment methods are employed, depending on the feedstock and desired products (chemical, enzymatic, physical, involving ionic liquids). The wide variability of microalgal feedstock composition and optimal growth conditions means that there is no one-fits-all solution; cultivation, harvesting and processing must be tailored to each species and targeted product.

The specific challenge is to scale up and lower the costs of microalgae cultivation combined with downstream processing towards commercial valorisation of marketable products.

**Type of aid**

Subsidies and grants

**Beneficiaries**

Consortiums and associations of undertakings

**Description of the aid**

It is part of the Bio-based Industries initiative within the actions of public-private collaboration Joint Technology Initiative.
For the purposes of the BBI JU calls, two different types of organisations are eligible and distinguished according to their sector:

- Academic sector;
- Non-academic sector

It is mandatory that at least 3 entities from 3 different countries collaborate, according to the participation rules of the H2020 program.

This call finances innovation actions, so that both large industries and SMEs are eligible for funding, with an aid intensity of 70%. The intensity of aid for non-profit entities is 100%.

The activities to be carried out in the context of Innovation Actions – "Demonstration" actions include:

- demonstration activities, focusing mainly on optimization of flows and cost reduction. Such demonstration activities could include engineering and testing operational conditions that have been identified at research and pilot scale to optimize productivity. Monitoring, data collection and analysis is considered critical during this phase;
- plant design, set-up and optimization of operations to reach the project objectives;
- management activities linking together all the project components and maintaining communications with the BBI JU;
- other activities including dissemination and exploitation

The following costs are financed:

- Personnel costs (template or hired specifically for the project)
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- Outsourcing
- Indirect costs (fixed rate 25%)

**Term of validity of the call**

Opening date: 04/04/2019
Application deadline: 04/09/2019

**Link for more information**

**Call.**

**Region in which the project can be developed**

European Union
H2020-Bio-based Industries: BBI2019.SO1.F1 – Valorise the organic fraction of municipal solid waste through an integrated biorefinery at commercial level

Purpose of the aid

The organic fraction of municipal solid waste (OFMSW) produced annually in the European Union is estimated at 88 million tonnes, rising to 96 million tonnes annually by 2020. On a global basis, cities produced about 1.3 billion tonnes of solid waste in 2012, of which a significant percentage was organic. This figure is expected to rise to 2.2 billion tonnes per year by 2025. Containing mainly carbohydrates, proteins and lipids, OFMSW presents an important feedstock for biorefining to convert it into valuable compounds for applications in a variety of market segments. However, this precious feedstock is often perceived as a challenge for urban agendas due to its potential pressure on the environment and human health. Together with other waste streams, OFMSW is often used for energy recovery or sent to landfill. These disposal steps of OFMSW pre-empt exploiting its potential for valuable products achievable in cascading operations. Aerobic (composting) and anaerobic digestion processes on the OFMSW have been able to reduce this fraction going to landfill. However, these processes mainly result in low-value products such as compost, biogas and digestate. Building on earlier projects on OFMSW, industry is ready to scale up the total value chain to first-of-akind biorefinery at commercial level. Successful operation at this level will start to realise a better exploitation of the potential of the OFMSW in Europe. The specific challenge is to sustainably scale up the conversion of OFMSW into added-value products to commercial levels.

Type of aid

Subsidies and grants

Beneficiaries

Consortiums and associations of undertakings

Description of the aid

It is part of the Bio-based Industries initiative within the actions of public-private collaboration Joint Technology Initiative.

For the purposes of the BBI JU calls, two different types of organisations are eligible and distinguished according to their sector:

- Academic sector;
- Non-academic sector

It is mandatory that at least 3 entities from 3 different countries collaborate, according to the participation rules of the H2020 program.

This call finances innovation actions, so that both large industries and SMEs are eligible for funding, with an aid intensity of 70%. The intensity of aid for non-profit entities is 100%.
The activities to be carried out in the context of innovation – Flagship actions include:

- plant design, set-up and optimization of operations to reach the project objectives;
- an exploitation plan stating the activities to be performed to further increase the economic viability of their process, to prove market demand or include measures to increase market demand, to address consumer perception and to evaluate sustainability;
- management activities linking together all the project components and maintaining communications with the BBI JU;
- other activities including dissemination and exploitation.

The following costs are financed:

- Personnel costs (template or hired specifically for the project)
- Other costs (inventory materials, fungible, publications, travel and subsistence)
- Outsourcing
- Indirect costs (fixed rate 25%)

**Term of validity of the call**

Opening date: 04/04/2019
Application deadline: 04/09/2019

**Link for more information**

[Call](#)

**Region in which the project can be developed**

European Union
Purpose of the aid

The implementation of biorefining concepts at large scales is often affected by the need to achieve a balance between pre-treatment steps and the main conversion phase. The need to obtain high-purity fractions from the starting biomass to be fed into the following steps entails the use of harsh conditions in the pre-treatments. This entails high costs caused by: (i) energy, water and/or raw materials (e.g. chemicals, enzymes) requirements; (ii) complexity of operations and maintenance; (iii) an increase in waste and residues generation; and (iv) increased production of inhibitor compounds that may affect the overall yields of biorefining processes.

On the other hand, soft operating conditions in pre-treatments often result in a lower effectiveness in biomass fractionation, thus directly affecting the yields in the targeted products during conversion phases.

Several technologies based on chemical, biochemical, physical processes or a combination of these has shown the potential to provide valuable and sustainable solutions to substitute and/or efficiently integrate pre-treatment processes currently implemented.

The specific challenge is to reduce costs and improve sustainability associated with the pre-treatment steps of biomass feedstock while making it possible to achieve of sufficiently high yields in the targeted products in the subsequent conversion steps.

Type of aid

Subsidies and grants

Beneficiaries

Consortiums and associations of undertakings

Description of the aid

It is part of the Bio-based Industries initiative within the actions of public-private collaboration Joint Technology Initiative.

For the purposes of the BBI JU calls, two different types of organisations are eligible and distinguished according to their sector:

- Academic sector;
- Non-academic sector

It is mandatory that at least 3 entities from 3 different countries collaborate, according to the participation rules of the H2020 program.

This call finances Research and Innovation Actions, so that large industries are not eligible for funding, although they can participate. The intensity of aid for SMEs and non-profit entities is 100%.
The activities to be carried out in the context of Research and Innovation Actions include:

- research and technological development activities, reflecting the core activities of the project; these should aim at a significant advance beyond the established state-of-the-art
- management activities linking together all the project components and maintaining communications with the BBI JU
- other activities including dissemination and exploitation.

The following costs are financed:

- Personnel costs (template or hired specifically for the project)
- Other costs (inventory materials, fungible, publications, travel and subsistence)
- Outsourcing
- Indirect costs (fixed rate 25%)

**Term of validity of the call**

Opening date: 04/04/2019
Application deadline: 04/09/2019

**Link for more information**

**Call.**

**Region in which the project can be developed**

European Union
### Purpose of the aid

Microorganisms and/or enzymes can be applied to biodegrade/decompose plastic waste, one of the major threats to our ecosystem. This is a key focus area to apply the concept of the circular economy, besides changing human behaviour and production systems. The plastics industry is increasingly applying eco-design principles when producing plastics, ensuring an appropriate end of life by recycling, degrading or composting. Where these principles cannot be applied (any more), industry needs to establish different systems to close the circle of plastic material in the end-of-life phase. This will avoid plastic littering land and sea and reduce plastic waste diverted to landfill or incineration. Scientists have recently found that some microbes (bacteria and fungi) have evolved the ability to break down plastics\(^1\). Other scientists have discovered plastic-eating bacteria that can break down PET\(^2\).

Applying microorganisms and/or enzymes in the end-of-life phase of plastics could result in new feedstock for the bio-based industry. They may even be applied to all sorts of residual streams without any preliminary separation or sorting operations.

The specific challenge is to exploit the potential of microorganisms and/or enzymes to resolve end-of-life issues with plastics.

### Type of aid

Subsidies and grants

### Beneficiaries

Consortiums and associations of undertakings

### Description of the aid

It is part of the Bio-based Industries initiative within the actions of public-private collaboration Joint Technology Initiative.

For the purposes of the BBI JU calls, two different types of organisations are eligible and distinguished according to their sector:

- Academic sector;
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The following costs are financed:

- Personnel costs (template or hired specifically for the project)
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- Outsourcing
- Indirect costs (fixed rate 25%)

**Term of validity of the call**

Opening date: 04/04/2019
Application deadline: 04/09/2019

**Link for more information**

**Call.**

**Region in which the project can be developed**

European Union
H2020-Bio-based Industries: BBI2019.SO2.R5 – Convert plant oils and fats into safe high-added-value products for various applications including food and personal care

**Purpose of the aid**

Plant oils and fats are a promising feedstock for high-value products with new functionalities and properties for applications in food, personal care, cosmetics and in the chemical industry, among others. However, current processing conditions for refining the feedstock can cause undesired or toxic impurities and possibly also potentially carcinogenic compounds. Also, current refining processes have either a high energy demand or result in high oil losses, while the side streams bring in low value.

The specific challenge is to refine plant oils and fats at milder conditions, with high yields and delivering safe, high quality products.

**Type of aid**

Subsidies and grants

**Beneficiaries**

Consortiums and associations of undertakings

**Description of the aid**

It is part of the Bio-based Industries initiative within the actions of public-private collaboration Joint Technology Initiative.

For the purposes of the BBI JU calls, two different types of organisations are eligible and distinguished according to their sector:

- Academic sector;
- Non-academic sector

It is mandatory that at least 3 entities from 3 different countries collaborate, according to the participation rules of the H2020 program.

This call finances Research and Innovation Actions, so that large industries are not eligible for funding, although they can participate. The intensity of aid for SMEs and non-profit entities is 100%.

The activities to be carried out in the context of Research and Innovation Actions include:

- research and technological development activities, reflecting the core activities of the project; these should aim at a significant advance beyond the established state-of-the-art
- management activities linking together all the project components and maintaining communications with the BBI JU
- other activities including dissemination and exploitation.
The following costs are financed:

- Personnel costs (template or hired specifically for the project)
- Other costs (inventory materials, fungible, publications, travel and subsistence)
- Outsourcing
- Indirect costs (fixed rate 25%)

**Term of validity of the call**

Opening date: 04/04/2019
Application deadline: 04/09/2019

**Link for more information**

Call.

**Region in which the project can be developed**

European Union
Purpose of the aid
The chemical industry and other sectors apply combinations of technologies to improve operational effectiveness in relevant situations. These technologies include, for example, physico-chemical, electro-chemical, biochemical and thermo-chemical conversion technologies, combined in an innovative manner. The concept of applying combined technologies, existing as well as newly emerging ones, may serve the bio-based industry sectors well in their pursuit to maximally valorise residual streams and unused or underutilised resources. This new way to convert biomass feedstock will result in the highest value and benefit for all concerned through partnership between the primary sectors and the emerging biobased sector. The specific challenge is to effectively apply new and innovative combinations of technologies in biobased value chains to maximise valorisation of the feedstock.

Type of aid
Subsidies and grants

Beneficiaries
Consortiums and associations of undertakings

Description of the aid
It is part of the Bio-based Industries initiative within the actions of public-private collaboration Joint Technology Initiative.

For the purposes of the BBI JU calls, two different types of organisations are eligible and distinguished according to their sector:
- Academic sector;
- Non-academic sector

It is mandatory that at least 3 entities from 3 different countries collaborate, according to the participation rules of the H2020 program.

This call finances innovation actions, so that both large industries and SMEs are eligible for funding, with an aid intensity of 70%. The intensity of aid for non-profit entities is 100%.
The activities to be carried out in the context of innovation – Flagship actions include:

- plant design, set-up and optimization of operations to reach the project objectives;
- an exploitation plan stating the activities to be performed to further increase the economic viability of their process, to prove market demand or include measures to increase market demand, to address consumer perception and to evaluate sustainability;
- management activities linking together all the project components and maintaining communications with the BBI JU;
- other activities including dissemination and exploitation.

The following costs are financed:

- Personnel costs (template or hired specifically for the project)
- Other costs (inventory materials, fungible, publications, travel and subsistence)
- Outsourcing
- Indirect costs (fixed rate 25%)

**Term of validity of the call**

Opening date: 04/04/2019
Application deadline: 04/09/2019

**Link for more information**

Call.

**Region in which the project can be developed**

European Union
Purpose of the aid

Variations in composition of bio-based residual streams are a major drawback for their effective management and processing. Better insight into their nature, composition and transformation reactions affecting their composition and energetic content is crucial for putting the right valorisation steps in place.

Modelling systems to track and chart impacts of relevant variables in managing and processing organic residual streams can provide the desired insight and help simulate value chains for valorisation.

The specific challenge is to increase insight into the changing quality of bulk organic residues with the aid of modelling systems.

Type of aid

Subsidies and grants

Beneficiaries

Consortiums and associations of undertakings

Description of the aid

It is part of the Bio-based Industries initiative within the actions of public-private collaboration Joint Technology Initiative.

For the purposes of the BBI JU calls, two different types of organisations are eligible and distinguished according to their sector:

- Academic sector;
- Non-academic sector

It is mandatory that at least 3 entities from 3 different countries collaborate, according to the participation rules of the H2020 program.

This call finances Research and Innovation Actions, so that large industries are not eligible for funding, although they can participate. The intensity of aid for SMEs and non-profit entities is 100%.
The activities to be carried out in the context of Research and Innovation Actions include:

- research and technological development activities, reflecting the core activities of the project; these should aim at a significant advance beyond the established state-of-the-art
- management activities linking together all the project components and maintaining communications with the BBI JU
- other activities including dissemination and exploitation.

The following costs are financed:

- Personnel costs (template or hired specifically for the project)
- Other costs (inventory materials, fungible, publications, travel and subsistence)
- Outsourcing
- Indirect costs (fixed rate 25%)

**Term of validity of the call**

Opening date: 04/04/2019
Application deadline: 04/09/2019

**Link for more information**

**Call.**

**Region in which the project can be developed**

European Union
Purpose of the aid

Bio-based materials are promising alternatives to fossil-based plastic counterparts in several high-volume consumer applications: for example, they can be used for transparent films, in packaging and hygiene products, non-woven products, superabsorbent polymers and reinforced bio-composites. These bio-based materials can be made biocompostable, and/or biodegradable or recyclable if not degradable, lowering the environmental burden versus fossil-based alternatives.

The specific challenge is to provide bio-based materials for high-volume consumer products with a lower environmental footprint at end of life than their fossil-based plastic counterparts.

Type of aid

Subsidies and grants

Beneficiaries

Consortiums and associations of undertakings

Description of the aid

It is part of the Bio-based Industries initiative within the actions of public-private collaboration Joint Technology Initiative.

For the purposes of the BBI JU calls, two different types of organisations are eligible and distinguished according to their sector:

- Academic sector;
- Non-academic sector

It is mandatory that at least 3 entities from 3 different countries collaborate, according to the participation rules of the H2020 program.

This call finances Research and Innovation Actions, so that large industries are not eligible for funding, although they can participate. The intensity of aid for SMEs and non-profit entities is 100%.
The activities to be carried out in the context of Research and Innovation Actions include:

- research and technological development activities, reflecting the core activities of the project; these should aim at a significant advance beyond the established state-of-the-art
- management activities linking together all the project components and maintaining communications with the BBI JU
- other activities including dissemination and exploitation.

The following costs are financed:

- Personnel costs (template or hired specifically for the project)
- Other costs (inventory materials, fungible, publications, travel and subsistence)
- Outsourcing
- Indirect costs (fixed rate 25%)

**Term of validity of the call**
Opening date: 04/04/2019
Application deadline: 04/09/2019

**Link for more information**

**Call.**

**Region in which the project can be developed**
European Union
Purpose of the aid

High-performance applications often demand stable materials that, for example, can withstand temperature variations or are resistant to salt or to degradation by enzymes. Moreover, society increasingly demands products and applications that are sustainable and that can improve the environment in their entire life cycle (during their use and at their end of life).

The demand for high-performing, safe and sustainable bio-based materials exists today in market sectors as diverse as cosmetics, personal care, home care, packaging, coatings, resins and paints, additives, fibres, insulation, automotive, construction and others. The requirements for their functional capabilities and end of life may, however, differ.

The specific challenge is to identify and make available high-performance bio-based products for market applications that demand specific performance in use and in the end-of-life phase.

Type of aid

Subsidies and grants

Beneficiaries

Consortiums and associations of undertakings

Description of the aid

It is part of the Bio-based Industries initiative within the actions of public-private collaboration Joint Technology Initiative.

For the purposes of the BBI JU calls, two different types of organisations are eligible and distinguished according to their sector:

- Academic sector;
- Non-academic sector

It is mandatory that at least 3 entities from 3 different countries collaborate, according to the participation rules of the H2020 program.

This call finances Research and Innovation Actions, so that large industries are not eligible for funding, although they can participate. The intensity of aid for SMEs and non-profit entities is 100%.
The activities to be carried out in the context of Research and Innovation Actions include:

- research and technological development activities, reflecting the core activities of the project; these should aim at a significant advance beyond the established state-of-the-art
- management activities linking together all the project components and maintaining communications with the BBI JU
- other activities including dissemination and exploitation.

The following costs are financed:

- Personnel costs (template or hired specifically for the project)
- Other costs (inventory materials, fungible, publications, travel and subsistence)
- Outsourcing
- Indirect costs (fixed rate 25%)

**Term of validity of the call**

Opening date: 04/04/2019
Application deadline: 04/09/2019

**Link for more information**

**Call.**

**Region in which the project can be developed**

European Union

Purpose of the aid
Several market sectors utilise functional ingredients and additives to achieve the desired functionality and performance of their consumer products. Specialty, functional molecules are required to meet market requirements in sectors as diverse as cosmetics, flavours and fragrances, nutraceuticals, pharmaceuticals, medicine, beverages, food and feed.

In consumer products, especially those related to personal and home care, food and beverages, consumers are demanding functional natural products and ingredients. In industrial products, bio-based formulations open interesting opportunities for better performance and higher sustainability. In addition, bio-based value chains based on regionally sourced biomass feedstock offer interesting opportunities to meet requirements from consumers and industry in different market sectors and realise maximum benefits for the local society.

The specific challenge is to create integrated value chains with the appropriate business models to produce functional ingredients and additives.

Type of aid
Subsidies and grants

Beneficiaries
Consortiums and associations of undertakings

Description of the aid
It is part of the Bio-based Industries initiative within the actions of public-private collaboration Joint Technology Initiative.

For the purposes of the BBI JU calls, two different types of organisations are eligible and distinguished according to their sector:

- Academic sector;
- Non-academic sector

It is mandatory that at least 3 entities from 3 different countries collaborate, according to the participation rules of the H2020 program.

This call finances innovation actions, so that both large industries and SMEs are eligible for funding, with an aid intensity of 70%. The intensity of aid for non-profit entities is 100%.
The activities to be carried out in the context of Innovation Actions – “Demonstration” actions include:

- demonstration activities, focusing mainly on optimization of flows and cost reduction. Such demonstration activities could include engineering and testing operational conditions that have been identified at research and pilot scale to optimize productivity. Monitoring, data collection and analysis is considered critical during this phase;
- plant design, set-up and optimization of operations to reach the project objectives;
- management activities linking together all the project components and maintaining communications with the BBI JU;
- other activities including dissemination and exploitation

The following costs are financed:

- Personnel costs (template or hired specifically for the project)
- Other costs (inventory materials, fungible, publications, travel and subsistence)
- Outsourcing
- Indirect costs (fixed rate 25%)

**Term of validity of the call**

Opening date: 04/04/2019
Application deadline: 04/09/2019

**Link for more information**

**Call.**

**Region in which the project can be developed**

European Union
Purpose of the aid

Industry and society in general are increasingly looking for bio-based, high-performance, non-toxic and fully biodegradable alternatives to conventional compounds, production processes or products that may be harmful to human health and/or the environment. Applications under scrutiny are, among others, related to the working environment in industrial settings and households, or operations close to freshwater reservoirs and marine environments. The specific challenge is to increase the protection of human health and the environment in different application sectors with novel bio-based product alternatives.

Type of aid

Subsidies and grants

Beneficiaries

Consortiums and associations of undertakings

Description of the aid

It is part of the Bio-based Industries initiative within the actions of public-private collaboration Joint Technology Initiative.

For the purposes of the BBI JU calls, two different types of organisations are eligible and distinguished according to their sector:

- Academic sector;
- Non-academic sector

It is mandatory that at least 3 entities from 3 different countries collaborate, according to the participation rules of the H2020 program.

This call finances innovation actions, so that both large industries and SMEs are eligible for funding, with an aid intensity of 70%. The intensity of aid for non-profit entities is 100%.

The activities to be carried out in the context of innovation – Flagship actions include:

- plant design, set-up and optimization of operations to reach the project objectives;
- an exploitation plan stating the activities to be performed to further increase the economic viability of their process, to prove market demand or include measures to increase market demand, to address consumer perception and to evaluate sustainability;
- management activities linking together all the project components and maintaining communications with the BBI JU;
- other activities including dissemination and exploitation.
The following costs are financed:

- Personnel costs (template or hired specifically for the project)
- Other costs (inventory materials, fungible, publications, travel and subsistence)
- Outsourcing
- Indirect costs (fixed rate 25%)

**Term of validity of the call**
Opening date: 04/04/2019
Application deadline: 04/09/2019

**Link for more information**

**Call.**

**Region in which the project can be developed**
European Union
Calls for the promotion of R & D + i projects

CDTI- Research and Development Projects

Purpose of the aid
Encourage the implementation of projects applied for the creation and significant improvement of a production process, product or service provided by a single company or by a business group. They can include both industrial research and experimental development. R + D individual projects, R & D cooperation in national, international technological cooperation projects and R & D projects in specific call: four categories are distinguished project.

Type of aid
Reimbursable grants and loans

Beneficiaries
Corporation - Consortia and associations of undertakings

To promote the implementation of major industrial research projects developed effective collaboration-oriented business groups conducting research in strategic areas planned and potential future international projection. They will be industrial research and experimental development undertaken by companies in the consortium. At least 50% of the total budget should be devoted to industrial research activities.

Type of aid
Loans and repayable aid - Subsidies and grants

Beneficiaries
Corporation - Consortia and associations of undertakings
Description of aid
The following items are financed:

- Personnel costs (researchers, technicians and other supporting staff)
- Equipment and materials costs.
- Cost of contractual research and patents acquired technical knowledge.
- Additional overheads.
- Other operating expenses, including costs of materials, supplies and similar products.

Term of the call
Open call

Link for more information
Call sheet

Region in which the project can be developed
Spain
Purpose of the aid
To promote the implementation of major industrial research projects developed effective collaboration-oriented business groups conducting research in strategic areas planned and potential future international projection. They will be industrial research and experimental development undertaken by companies in the consortium. At least 50% of the total budget should be devoted to industrial research activities.

Type of aid
Loans and repayable aid - Subsidies and grants

Beneficiaries
Corporation - Consortia and associations of undertakings

Description of aid
The following items are financed:
- Personnel expenses researcher, technical and auxiliary.
- Equipment and materials costs.
- Cost of contractual research, technical knowledge and acquired patents and costs of consultancy and equivalent services.
- Additional overheads.
- Other operating expenses, including costs of materials, supplies and similar products. Spending report by the auditor with a ceiling of 2,000 euros per beneficiary and milestone may be included.

Term of the call
Open call

Link for more information
Call sheet

Region in which the project can be developed
Spain
Purpose of the aid

The strategic R & D are major research projects and business development of character applied to the creation or significant improvement of a production process, product or service. They must also demonstrate a differential technological aspect on existing technologies in the market.

These projects must be strategic for the company and assume the development of R & D incentive effect that will stimulate the development and incorporation of new technological knowledge into products, processes or services. These projects can include both industrial research and experimental development.

Type of aid

Loans and reimbursable grants - Grants and non repayable assistance

Beneficiaries

corporation - Consortia and associations of undertakings

Description of the aid

The following items are financed:

- Personal expenses.
- Equipment and materials costs.
- Cost of contractual research, knowledge and patents acquired or obtained.
- additional overheads.
- Other operating expenses, including costs of materials, supplies and similar products.

Term of the call

Open call

Link for more information

Call sheet

Region in which the project can be developed

Spain
Call for the Innova Plus 2019 Grants Line.

**Purpose of the aid**
Actions to introduce new products or innovative services to the market, both for the company and for the market, will be eligible. These actions will have to be preceded by previous research phases, aimed at acquiring new knowledge and attitudes that may be useful to develop new products, processes or services or to improve existing ones, or experimental development.

**Type of aid**
Subsidies and grants

**Beneficiaries**
Corporation - Individual Entrepreneur - Consortia and associations of undertakings

**Description of the aid**
Eligible expenses, which must necessarily be linked to the innovative product or service, are divided into the following chapters:

a) Attendance to congresses and fairs: assistance from the entity's own staff to fairs, congresses and platforms of a technological and scientific nature in the field of innovation and industry.

The following may be included in this category: expenses for the registration of own personnel in the fairs, congresses or meetings of platforms and expenses of accommodation and displacement of the own personnel.

b) Technical assistance, consulting and equivalents for the design, development, implementation, preparation of contents and dynamization of actions related to access to the market of the proposed technologies.

c) Hiring of market studies.

d) Obtaining, validating and defending patents and other intangible assets.

e) Design, layout and printing of brochures, catalogs, advertising originals or any other promotional material directly related to the product or service.

f) Expenses derived from the report of the auditor of accounts referenced in article 12.2 c) of Order INN / 23/2018, of April 25, which establishes the regulatory bases of the INNOVA PLUS subsidy line.
Term of validity of the call
Opening date: 17/04/2019
Application deadline: 16/05/2019

Link for more information

Announcement.

Bases.

Region in which the project can be developed
Spain
## Purpose of the aid

Aid aimed at supporting the stable hiring of qualified technical personnel in companies in Cantabria with the aim of encouraging the development of industrial research and experimental development activities.

## Type of aid

Loans and reimbursable grants

## Beneficiaries

Corporation - Individual Entrepreneur

## Description of the aid

Eligible expenditure:

Maximum aid of up to 70% of the total eligible budget may be granted (12 first months of hiring), following the order of priority by application of the evaluation criteria and until the exhaustion of the budget credit, with a maximum of € 30,000 per request. This call is endowed with a budget of € 300,000 for the year 2019.

## Term of validity of the call

Opening date: 17/04/2019

Application deadline: 02/10/2019

## Link for more information

Announcement.

Bases.

Region in which the project can be developed

Islas Baleares
Subsidies destined to the promotion of the investigation, development and innovation, in regime of direct concession, for the program 1: Works previous to the development of projects of R+D+i or to the development of intensive organizations in R+D+i

Purpose of the aid
It will be eligible:
 a) External expert consultancy and / or technical assistance
 b) The travel expenses of professionals of the beneficiary to carry out prospecting actions related to the participation of the company in R & D & I projects

Type of aid
Subsidies and grants

Beneficiaries
Corporation - Individual Entrepreneur

Description of the aid
This grant may be cofinanced by the European Regional Development Fund (ERDF), at a percentage of 50 %.

Term of validity of the call
Opening date: 22/03/2019
Application deadline: 13/12/2019

Link for more information
Announcement.
Bases.
Region in which the project can be developed
La Rioja
Purpose of the aid
The aids contemplated in this call are intended to encourage the development of research and development (R & D) projects, and technological innovation. The individual or cooperative projects may correspond to any of the following types:
- Research and Development Projects (R & D)
- Projects of Technological Innovation in the matter of processes and / or organization
- Hiring of researchers and technologists for the development of R & D projects or tasks

Type of aid
Subsidies and grants

Beneficiaries
Corporation - Individual Entrepreneur

Description of the aid
Eligible expenditure:
- The costs of own personnel (researchers, technicians and other auxiliary personnel), the cost of new instruments and laboratory equipment, the materials (fungible or not), the necessary external collaborations, the indirect costs.
- The acquisition of those new productive assets necessary for the manufacture or production of the new product, service or process developed.

Term of validity of the call
Opening date: 22/03/2019
Application deadline: 13/12/2019
Link for more information

Announcement.

Bases.

Region in which the project can be developed

La Rioja
**Subsidies for the promotion of research, development and innovation, under a direct concession regime, for Program 4: Start-up and operation of young and innovative companies**

**Purpose of the aid**
Promoting the creación and the development of young and innovative enterprises to increase the innovative entrepreneurial base in the Comunidad Autónoma de La Rioja.

Types:
- Create and develop young and innovative enterprises
- Create and develop young, technological and innovative enterprises
- Aids to develop and implant the Bussines Plan

**Type of aid**
Subsidies and grants

**Beneficiaries**
Corporation - Individual Entrepreneur - Other

**Description of the aid**
Eligible expenditure:
- Personnel costs: researchers, technicians, etc.
- New instrumental and laboratory equipment.
- Materials, fungibles or not.
- Necessary external collaborations
- General expenses required.
- Material and non-material assets.
Term of validity of the call
Opening date: 22/03/2019
Application deadline: 13/12/2019

Link for more information

Announcement.

Bases.

Region in which the project can be developed
La Rioja
Purpose of the aid
The call is focused on the concession of grant aids under guarantee equity loans, young and innovative companies arising from research carried out by Catalan universities and research centers NEAR. The aid consists of providing the guarantee for 80% of the outstanding risk of participatory loans signed with IFEM.

Type of aid
Reimbursable grants and loans

Beneficiaries
Corporation - Individual Entrepreneur - Other

Description of the aid
The maximum amount for the line of aid in the form of collateral financed by the SUR is 1,600,000 euros, from the guarantee fund established under the collaboration agreement between the Department of Economy and Knowledge, Instruments Financers per a Empreses innovative and the Catalan Institute of Finance establishing a guarantee fund associated with the line of financing co-investment equity loans to companies resulting from research is constituted. This amount ensures maximum amount of 2,000,000 euros participatory credits that may be granted under the IFEM aforementioned collaboration agreement.

Term of the call
Applications can be submitted from 13.01.2018 until 12.27.2019.

Link for more information

Announcement

Region in which the project can be developed
Galicia
Annual periodic calls (closed) for the promotion of R + D + i, of interest to the sector

Aids for contracts Torres Quevedo (PTQ). (Annual call, closed at the momento – last call info)

**Purpose of the aid**
Torres Quevedo aids aimed for a period of three years to companies, state-level technology centers, support centers for technological innovation at state level, business associations and science and technology parks for the recruitment of doctors develop industrial research, experimental development and preliminary feasibility studies in order to promote the careers of researchers and stimulate demand in the private sector of sufficiently prepared to undertake plans and R & D, and help consolidate recent technology companies creation.

**Type of aid**
Subsidies and grants

**Beneficiaries**
Corporation - Individual Entrepreneur - Other

**Description of the aid**
Gross pay of the contribution of the employer to Social Security is financed more with a maximum eligible budget of 55,000 euros/annuity, up to 3 annuities. The final aid depends on the type of project and applicant organization.

If the gross annual salary is less than 18,000 euros, hiring is not financed.

**Term of validity of the call**
Opening date: 24/01/2019
Application deadline: 14/02/2019
Link for more information

Announcement.

More information.

Region in which the project can be developed

Spain
Aids for the training of doctors in companies "Industrial Doctorates". (Annual call, closed at the momento – last call info)

**Purpose of the aid**
The aim of the grants is to train doctors in companies by co-financing the employment contracts of research staff in training who participate in an industrial research or experimental development project, developed in the company, which will frame their doctoral thesis. In order to support the employment insertion of researchers in companies from the beginning of their professional careers, contribute to the employability of these researchers and promote the incorporation of talent in the productive fabric to increase the competitiveness of the same. The project of industrial research or experimental development can be executed in its entirety in the company or in collaboration between the company and another entity, public or private.

**Type of aid**
Subsidies and grants

**Beneficiaries**
Corporation - Individual Entrepreneur

**Description of the aid**
The maximum contractible cost to be financed will be 21,800 euros. For the financing of stays, carried out by these researchers, in different R & D entities to which they are attached, aid will be authorized up to a maximum of 2,400 euros. Regarding the justifiable expenditure of the same, the aid intensity indicated in the resolution of concession will apply.

In relation to the aid to finance the costs of enrollment in the doctoral studies, an aid of 1,500 euros will be authorized for each researcher hired, to finance the costs of enrollment in the doctoral studies in a Spanish university, public or private, corresponding to the courses in which it is registered during the validity of the aid for the contracting.

**Term of validity of the call**
Opening date: 22/01/2019
Application deadline: 12/02/2019
Link for more information

Announcement.

More information.

Region in which the project can be developed

Spain
Call 2018 of aids to new business projects of innovative companies (NEOTEC Program).

Purpose of the aid
These aids will finance the start up of new business projects, requiring the use of technology or knowledge developed from research activity and in which the business strategy is based on technology development.

Type of aid
Grants and non-repayable assistance

Beneficiaries
Corporation

Description of the aid
The following items are financed:

- Investment in equipment.
- Personnel expenses.
- Materials.
- External/advisory Collaborations.
- Other costs.

Term of validity of the call
Opening date: 29/07/2018
Application deadline: 02/10/2018
Link for more information

Bases.

Announcement.

Call.

More information.

Region in which the project can be developed

Spain