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Biotech for Climate Resilient Crops and Plant-Based Biomanufacturing

European Commission

According to the EU, land-based agricultural production is the source of approximately 95% of human food nutrients (UN FAO). Intensive and often inappropriate practices in agriculture have, however, resulted in severe soil degradation, thereby reducing the capacity of soils to support food production and other important ecosystem services such as the regulation of water, nutrients, and carbon cycles. Soil degradation is further accelerated by the effects of climate change, with abiotic stresses such as heat, drought, salinity, and waterlogging, often in combination, having negative effects on the world's crop production. The direct impact of a changed climate is also frequently accompanied by indirect impacts due to alterations in the composition and behaviour of weeds, insects, pathogens, and soil microbiome, alongside the impacts of increased amounts of human-generated pollutants. Plants react to such stresses with what are often conflicting physiological and metabolic responses. These may prioritise one acclimatisation/adaptation strategy over the other, a blend of one or more responses, and/or through developing a completely new strategy, all of which can, in turn, impact final production including nutrient content.

Eligibility

- The EIC Pathfinder Challenges support collaborative or individual research and innovation from consortia or single legal entities established in a Member State or an Associated Country (unless stated otherwise in the specific Challenge chapter).
- In case of a consortium, your proposal must be submitted by the coordinator on behalf of the consortium.
- A consortium of two entities must comprise independent legal entities from two different Member States or Associated Countries. Consortia of three or more entities must include as beneficiaries at least three legal entities, independent from each other and each established in a different country

The award value for this call is EUR 500000 to 4000000.

The application deadline is October 29, 2025.

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Opportunity Info

198 day(s) remaining

Amount: EURO 4,000,000

Date added: 2025-04-10

Deadline: 29 Oct 25

Email:

Tel:

Contact Person:

Collaboration Required: Yes

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