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Cost-effective and robust continuous biotech bio-based processes

European Commission

According to the EU, many bio-based chemicals/products are manufactured via biotech batch or fed-batch processes at commercial scale, which, despite being easier to control and scale up, often result in lower productivity, higher equipment downtime, and increased costs. Continuous biotech processes could represent promising emerging alternatives in biorefineries targeting high productivity and reduced costs. Despite having achieved significant advancements in some cases, there are still challenges to overcome towards scaling-up, such as: contamination risks, genetic instability of cells, maintaining simultaneously high production titer, productivity and yield, lack of capability of further downstream processing (DSP) to handle flow and concentration variations from upstream process, advanced monitoring and control. The proposal should therefore identify the existing bottlenecks in the switch to continuous processes (es), how the proposed innovative approach can overcome challenges of targeted processes (es), which are currently only operating in batch or fed-batch mode, and specify the advantages of switching to continuous.

Eligibility

- Any legal entity, regardless of its place of establishment, including legal entities from non-associated third countries or international organizations (including international European research organizations), is eligible to participate (whether it is eligible for funding or not).
- Countries associated with Horizon Europe.
- Low- and middle-income countries.

The award value for this call is around EUR 7000000.

The application deadline for this call is September 18, 2025.

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Opportunity Info

157 day(s) remaining**Amount:** EURO 7,000,000**Date added:** 2025-04-08**Deadline:** 18 Sep 25**Email:****Tel:****Contact Person:****Collaboration Required:** Yes**Funder's Website:** [Visit](#)**Related Calls:** [View](#)