

# French start-up specialized in mechanochemistry for plant-based materials looking for industrial and technological partnerships

## Summary

Profile type

**Technology offer**

Company's country

**France**

POD reference

**TOFR20250916018**

Profile status

**PUBLISHED**

Type of partnership

**Research and development  
cooperation agreement**
**Commercial agreement with  
technical assistance**

Targeted countries

**• World**

Contact Person

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Term of validity

**16 Sep 2025**
**16 Sep 2026**

Last update

**16 Sep 2025**

## General Information

### Short summary

BioseDev leverages mechanochemistry, a cutting-edge technology that involves the controlled application of mechanical forces on plant materials to alter their molecular structure, with or without the addition of chemical reagents. As part of our growth strategy, we are actively seeking partnerships across various fields to accelerate the development of our technology and products.

### Full description

BioseDev leverages mechanochemistry, a cutting-edge technology that involves the controlled application of mechanical forces on plant materials to alter their molecular structure, with or without the addition of chemical reagents. The ingredients developed by BioseDev can be used in a wide range of applications, including as thickeners, texturizing agents, hair care products, emulsifiers, and functional or active ingredients. BioseDev has already developed innovative green emulsifiers from sawdust, reeds, and bamboo fibers using mechanochemistry. We have also created a natural biostimulant derived from marine algae. In addition, we are actively working on the development of several bioactive ingredients from renewable resources. We maintain strong partnerships with numerous academic institutions and industrial players in the cosmetic, agri-food, and chemical sectors

#### Advantages and innovations

This innovative approach allows BioseDev to perform soft depolymerization of various polysaccharides such as cellulose, hemicellulose, alginate, carrageenans, inulin, pectin, chitin, chitosan, beta-glucans, and pullulan. Through this process, we are able to upcycle by-products from the forestry and agricultural industries into high-quality, bio-based, and functional ingredients.

#### Technical specification or expertise sought

#### Stage of development

**Already on the market**

#### IPR Status

**Secret know-how**

#### IPR Notes

#### Sustainable Development goals

- **Goal 6: Clean Water and Sanitation**
- **Goal 13: Climate Action**
- **Goal 3: Good Health and Well-being**

## Partner Sought

#### Expected role of the partner

We are looking for partners interested in collaborative research and development projects, where our complementary expertise can be leveraged to overcome technological challenges and explore new applications.

#### Type of partnership

#### Type and size of the partner

**Research and development cooperation agreement**

**Commercial agreement with technical assistance**

- SME 11-49
- SME <=10
- University
- SME 50 - 249
- Big company
- R&D Institution

## Dissemination

### Technology keywords

- **08001004 - Food Processing**
- **06001015 - Pharmaceutical Products / Drugs**
- **06002002 - Cellular and Molecular Biology**

### Targeted countries

- **World**

### Market keywords

- **07004002 - Health and beauty aids**
- **07003003 - Soft drinks and bottling plants**
- **07003002 - Health food**

### Sector groups involved