

French startup specialized in microalgae-based solutions for indoor air purification and wastewater treatment is seeking companies in the food and beverage industry—particularly breweries—to test their wastewater solution.

Summary

Profile type

Technology request

Company's country

France

POD reference

TRFR20260424019

Profile status

PUBLISHED

Type of partnership

**Commercial agreement with
technical assistance**

**Research and development
cooperation agreement**

Targeted countries

• **France**

Contact Person

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Term of validity

24 Apr 2026

24 Apr 2027

Last update

24 Apr 2026

General Information

Short summary

French startup specialized in microalgae-based solutions for indoor air purification and wastewater treatment is seeking to collaborate with companies in the food and beverage industry—particularly breweries—to test their solution (wastewater treatment) alongside their existing treatment facilities (air purification treatment).

Full description

The French start-up is specializing in microalgae production and air purification since 2021. They have built a multidisciplinary in-house team covering technical expertise in mechanical engineering, embedded systems, and biotechnology, as well as commercial and communications functions.

They are currently developing an innovative technology for industrial wastewater treatment. The concept and its effectiveness have already been successfully demonstrated in partnership with the CentraleSupélec laboratory.

They design and manufacture their prototypes in-house.

They are now seeking to collaborate with companies in the food and beverage industry—particularly breweries—to test their solution alongside their existing treatment facilities.

The French startup has focused on microalgae production and air treatment since 2021. They use microalgae to purify indoor air and install their air purification systems in coworking spaces, cafeterias, open-plan offices, and entrance lobbies. Their products are already on the market, and they have equipped numerous clients. They also install sensors to monitor air quality at client sites, giving customers access to a platform where they can view their indoor air quality in real time.

They are also developing a new business line focused on the biological treatment of wastewater using their microalgae. The team consists of 12 employees, with strong technical expertise in mechanical engineering, embedded systems, and biotechnology.

They manufacture their wastewater treatment prototype in-house. Their solution is fully adaptable to the treatment volumes required. They install multiple photobioreactors containing microalgae next to industrial facilities, allowing them to treat effluents while simultaneously producing microalgae that can later be resold. This makes their technology a sustainable and environmentally friendly treatment solution.

Advantages and innovations

Biological treatment process with no waste generated.

High treatment efficiency, reducing concentrations of the main pollutants by up to 98%.

Adaptable and modular solution based on the volumes to be treated.

Comprehensive treatment process covering VOCs, PM2.5, NOx, CO₂, and sterilization.

Technical specification or expertise sought

The French startup is currently looking for partners to test their treatment solution. Their technology is designed for food and beverage manufacturing plants, particularly breweries that generate wastewater discharges.

They are also seeking partnerships with wastewater treatment plants to test their solution alongside their existing treatment systems.

In addition, they are looking to partner with organizations that provide financial support to industrial facilities implementing sustainable treatment technologies.

They are also seeking calls for projects and grant opportunities to support the development of their solution. They are open to applying for collaborative projects in partnership with other companies and organizations.

Stage of development

Under development

Sustainable Development goals

- **Goal 3: Good Health and Well-being**
- **Goal 11: Sustainable Cities and Communities**
- **Goal 6: Clean Water and Sanitation**
- **Goal 13: Climate Action**
- **Goal 12: Responsible Consumption and Production**

IPR Status

IPR Notes

Partner Sought

Expected role of the partner

1. Industrial Pilot Partners

They target companies in the food and beverage industry, particularly breweries and production sites generating wastewater requiring treatment. They are looking for facilities with sufficient space to install their solution (several 200 L photobioreactors), especially companies undergoing expansion or facing significant costs or penalties related to wastewater treatment. Their role will be to host pilot installations, provide access to wastewater streams for treatment, and support the technical and economic validation of the solution under real operating conditions.

2. Funding Organizations and Sustainable Transition Support Partners

They aim to establish partnerships with organizations that finance the deployment of sustainable technologies on industrial sites. The objective is to co-develop financing plans tailored to industrial clients and facilitate adoption of their solution through grants, subsidies, and other financial incentive mechanisms. They are also targeting organizations that support farmers in reducing phytosanitary inputs and adopting biostimulants, with the goal of creating future market opportunities for the microalgae produced through our process.

3. Water Management Stakeholders and Public Authorities

They are also seeking partnerships with water management stakeholders (municipal wastewater treatment plants, local authorities, water agencies, public utilities, etc.) to identify their treatment challenges and develop complementary approaches alongside their existing solutions. Their role will be to help identify field needs, assess relevant use cases, and co-deploy demonstration projects in addition to their current infrastructure.

The partners involved will each play distinct and complementary roles:

From their industrial partners, the French startup expects the installation of its solution on their sites, operational feedback, and the opportunity to test its technology on a variety of wastewater streams under real-world conditions.

From funding organizations, the French startup expects to collaborate on developing financing plans that encourage industrial clients to adopt its technology.

From water management stakeholders, the French startup expects support in advancing our technology through their expertise in treatment infrastructure, operational constraints, and sector-specific challenges.

Type of partnership

Commercial agreement with technical assistance
Research and development cooperation agreement

Type and size of the partner

• **Big company**

Dissemination

Technology keywords

- **10004001 - Industrial Water Treatment**
- **010002001 - Air Pollution/Treatment**
- **10002001 - Indoor Air Pollution/Treatment**
- **10002013 - Clean Production / Green Technologies**
- **010002009 - Water Pollution / Treatment**

Market keywords

- **04017 - Micro- and Nanotechnology related to Biological sciences**



Targeted countries

- **France**

Sector groups involved

