

An Italian company with extensive expertise in designing and developing space technologies offers research centers and life sciences companies the chance to experiment using a miniaturized self-operating laboratory system that functions in microgravity.

## Summary

Profile type	Company's country	POD reference
<b>Technology offer</b>	<b>Italy</b>	<b>TOIT20240911022</b>
Profile status	Type of partnership	Targeted countries
<b>PUBLISHED</b>	<b>Commercial agreement with technical assistance</b> <b>Research and development cooperation agreement</b>	<b>• World</b>
Contact Person	Term of validity	Last update
<a href="#"><b>Johannes BÖHMER</b></a>	<b>11 Sep 2024</b> <b>11 Sep 2025</b>	<b>11 Sep 2024</b>

## General Information

### Short summary

An Italian company working in the aerospace industry provides advanced services in life sciences to public and private organizations interested in experimentation using a small, self-operating laboratory system that functions in microgravity. The MiniLab, which is space-qualified and autonomous microgravity laboratory capable of conducting scientific experiments through two separate fluid systems.

### Full description

Italian company, operating in the sectors of design, engineering, prototyping and production of innovative components for aerospace, ground segment for the control of remote platforms, science and technology, offers his experience in the field of life science interested to experimentation through an Autonomous Miniaturized Laboratory system. The space-qualified MiniLab, is a self-contained microgravity lab capable of performing a science experiment within two different fluidic lines.

The laboratory is equipped with:-4x micro-injectors, of which 2 for fluid line; 4 different cell culture chambers, of which 2 for each of the two lines; 2 solenoid valves, of which 1 per line; 2 waste tanks, of which 1 per line; 1x incubator capable of regulating the temperature of the cells stored in the cell culture chambers; 1 thermal regulator with high

sensitivity thermal control.

Advantages and innovations

Autonomous Miniaturized Laboratory system.  
Ensured Thermal Control.  
Conformity to SSP Standards.  
Fluidic Experiments guaranteed.

Technical specification or expertise sought

Stage of development

**Already on the market**

IPR Status

**IPR granted**

IPR Notes

Sustainable Development goals

• **Goal 3: Good Health and Well-being**

## Partner Sought

Expected role of the partner

Customers interested to do life science or biological experimentation campaign in Microgravity.

Type of partnership

**Commercial agreement with technical assistance**

**Research and development cooperation agreement**

Type and size of the partner

• **SME 50 - 249**

• **Big company**

• **R&D Institution**

• **University**

## Dissemination

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### Technology keywords

- **06002011 - Bionics**
- **06002008 - Microbiology**
- **06002005 - Genetic Engineering**
- **06002001 - Biochemistry / Biophysics**

### Targeted countries

- **World**

### Market keywords

- **04006 - Cellular and Molecular Biology**
- **04010 - Microbiology**
- **04017 - Micro- and Nanotechnology related to Biological sciences**
- **04005 - Biochemistry / Biophysics**

### Sector groups involved

- **Aerospace and Defence**