

# Consortium with Swiss and South Korean partners seek a leading engineering company specialising in air samplers for Eurostars project

## Summary

Profile type

**Research & Development Request**

Company's country

**Switzerland**

POD reference

**RDRCH20250528012**

Profile status

**PUBLISHED**

Type of partnership

**Research and development  
cooperation agreement**

Targeted countries

**• World**

Contact Person

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Term of validity

**28 May 2025****28 May 2026**

Last update

**28 May 2025**

## General Information

### Short summary

The Eurostars project, led by partners from Switzerland and South Korea, aims to develop an integrated monitoring device that combines air sampling with PCR (Polymerase Chain Reaction) diagnostics to detect airborne viruses on farms. The device will enable non-experts to detect three target viruses in the air simultaneously, providing farmers, veterinarians and animal health services with a practical, non-invasive solution for virus monitoring.

### Full description

The innovation provides a platform that couples air sampling with PCR (Polymerase Chain Reaction) diagnostics to detect airborne infectious agents, thereby improving our ability to monitor and combat costly infectious diseases. The device can be operated by non-specialists and offers a safe, automated solution. Our aim is to produce the device, which consists of a sampler developed by the Swiss team and a detector developed by the Korean team.

One of the major challenges in monitoring airborne viruses is their low concentration in the air, which requires efficient air sampling and highly sensitive analytical methods. In collaboration with Korean partners specialising in analysis, the consortium aims to develop a powerful virus monitoring device.

The consortium gathers 2 Swiss R&D institutions, 1 R&D institution and 1 high-tech company from South Korea. The

Swiss R&D institutions will focus on developing and validating the aerosol sampler. Meanwhile, the Korean partners will develop and validate an automated platform for analysing viral particles captured by the sampler using molecular techniques.

An engineering company specialised in the development and design of air samplers is sought to complete the consortium

The application is planned to be submitted for the Eurostars funding call deadline in September 2025.

#### Advantages and innovations

This innovative technology enables the rapid on-site monitoring of air environments, providing a swift means of controlling the spread of infectious viruses. It also facilitates regular viral surveillance, helping to identify, prevent and minimise the risk of disease through various management strategies.

The device can be operated by non-specialists and does not require further laboratory analysis under strict biosafety protocols, providing an effective detection method that can be incorporated into sustainable biosecurity programmes in various sectors.

#### Technical specification or expertise sought

#### Stage of development

**Under development**

IPR Status

#### Sustainable Development goals

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

#### IPR Notes

## Partner Sought

#### Expected role of the partner

The consortium is looking for a leading engineering company specialising in the development of air samplers. The company expects to collaborate with the Swiss team to design and fabricate the prototype sampler.

The consortium also expects the company to have the capacity to produce the sampler in large quantities, thereby ensuring the timely market entry of the new device.

Type of partnership

**Research and development cooperation agreement**

Type and size of the partner

- **SME 50 - 249**
- **SME 11-49**
- **SME <=10**

## Call Details

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Framework program

**Eureka**

Call title and identifier

**Eurostars call for projects SEP 2024**

Submission and evaluation scheme

Anticipated project budget

Coordinator required

**No**

Deadline for EoI

**1 Sep 2025**

Deadline of the call

**12 Sep 2025**

Project duration in weeks

Web link to the call

Project title and acronym

## Dissemination

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Technology keywords

- **10002007 - Environmental Engineering / Technology**
- **10002008 - Measurement and Detection of Pollution**
- **10002001 - Indoor Air Pollution/Treatment**
- **06001005 - Diagnostics, Diagnosis**
- **06002002 - Cellular and Molecular Biology**

Targeted countries

- **World**

Market keywords

- **05001005 - Molecular diagnosis**
- **05001001 - Diagnostic services**
- **09003001 - Engineering services**
- **08004001 - Air filters and air purification and monitoring equipment**

Sector groups involved