

Consortium and partners search for HORIZON-CL4-2024-DIGITAL EMERGING- 01-54, DIGITAL EMERGING-01-55 or DIGITAL-HUMAN-01-07 calls

Summary

Profile type	Company's country	POD reference
Research & Development Request	France	RDRFR20231221020
Profile status	Type of partnership	Targeted countries
PUBLISHED	Research and development cooperation agreement	• World
Contact Person	Term of validity	Last update
<u>Aleš OGOREVC</u>	2 Jan 2024 1 Jan 2025	2 Jan 2024

General Information

Short summary

French SME specialising in micromanipulation is looking for research partners to take on new challenges in areas covered by the Horizon Europe Cluster 4 Topics framework. Spin-off from a research laboratory over 10 years ago, the company is now established as an industrial actor on a European scale. With know-how ranging from the design to the integration and automation of modular, scalable robotic platforms, the company is able to offer a tailored response to both research and industrial needs.

Full description

Since its creation, the company has been investing in R&D and is now looking to expand its research activities to meet new challenges and establish long lasting partnerships with European players.

Wishing to be a R&D player and not just an integrator, the company is particularly interested in joining consortia willing to submit proposals under the following calls or others :

- HORIZON-CL4-2024-DIGITAL-EMERGING-01-54 : Smart photonics for joint communication & sensing and access everywhere (RIA)
- HORIZON-CL4-2024-DIGITAL-EMERGING-01-55 : Photonics Innovation Factory for Europe (IA)

- HORIZON-CL4-2024-DIGITAL-HUMAN-01-07 : Collaborative intelligence : combining the best of machine and human (IA)

The French company is ready to offer different kind of services as for instance :

- collaborating together on the process and finding breakthrough solutions to answering the needs identified by the possible partners,
- doing some feasibility studies of micro-manipulation and micro-assembly,
- providing modular and flexible robotic platforms or fully customised automatic devices, for micro-manipulation and micro-assembly.

Its expertise :

- manipulation of components up to $5\mu\text{m}$, thanks to several different grippers (fully customisable).
If the part size is less than $5\mu\text{m}$, the company is open to study the possibility to go beyond in cooperation with the partners.
- accuracy of assembly up to $\pm 0.5\mu\text{m}$
- development of platforms or machines adapted to the size of the needed production, easily upgradable thanks to the modularity of the systems, flexibility of the vision software and experience gained since 2011.

The company is looking for companies designing innovative miniaturised products, or/and developing manually complex processes for miniaturised products.

The company is also seeking complementary expertise particularly in project coordination but also in 3 areas of research :

- human-machine interaction to make micro-robotics more accessible to non experts. This includes innovative interaction modes such as XR, haptic interfaces,... as well as systems to aid understanding and decision-making,
- innovative small scale actuation and measurement methods,
- artificial intelligence linked to advanced manufacturing, automation, human-machine interaction allowing to get the right information where and when it is needed.

Advantages and innovations

Flexibility, modularity, robustness, high accuracy in miniaturised products manufacturing, industry 4.0, reliability

Technical specification or expertise sought

- Companies willing to develop custom robotics solutions for their production and operations
 - Companies, R&D institutions, universities that work on state-of-the art robotic applications and search for a partner to participate in European research program,
 - Companies, R&D institutions, universities developing advanced sensors for potential integration in robotic systems
 - Companies, R&D institutions with a complementary expertise in AI (artificial intelligence), HMI (human-machine interaction), actuation or measurement methods.
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Stage of development

Already on the market

Sustainable Development goals

• **Goal 9: Industry, Innovation and Infrastructure**



IPR Status

IPR granted

Partner Sought

Expected role of the partner

Consortium and partners interested in applying Horizon-CL4-2024 Digital Emerging and Digital Human calls

Type of partnership

Research and development cooperation agreement

Type and size of the partner

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

Call Details

Framework program

Horizon Europe

Call title and identifier

HORIZON-CL4-2024-DIGITAL EMERGING-01-54, 01-55 and DIGITAL HUMAN-01-07

Submission and evaluation scheme

RIA and IA

Anticipated project budget

Coordinator required

Yes





Deadline for EoI

1 Mar 2024

Deadline of the call

19 Mar 2024

Project duration in weeks

Web link to the call

Project title and acronym

Dissemination

Technology keywords

Market keywords

• **08002004 - Robotics**

Targeted countries

• **World**

Sector groups involved

