



Consortium Formation – HORIZON-RAISE-2027-01-01

We are seeking partners for a research project under the above call and welcome connections to potential collaborators, end users and co-ordinators.

Title / Call Identifier	Automated Scientific Discovery (RAISE pilot) (RIA)
Organisation Name	Chemastery
Type and size of organisation	For profit, private, <10 staff.
Website	www.chemastery.com
Organisation Profile	Chemastery is an innovative UK company with a founding team experienced in chemistry, physics and engineering. We have identified the need for much higher levels of automation in chemistry labs in order to allow highly qualified scientists to focus their time on innovation and discovery rather than routine lab workflows. We are developing a fully-autonomous bench-top chemistry lab which performs end-to-end reactions under software control. Using a combination of AI and Robotics, the solution turns lab notes into no-code protocols that directly control complex multi-stage chemistry via a series of automated modules. The system is designed to move from gram-level batches during experimental R&D, to kg-level production during initial scale-up. Our market is pharmaceutical, industrial chemicals, fine chemicals and materials companies who wish to improve their efficiency and throughput whilst controlling staff costs.
Project Outline	A major opportunity in life sciences and materials development is to accelerate the “wet work” needed to complement the increasing use of AI-driven discovery engines. At present, wet labs are in danger of being “left behind” as companies increasingly use software to explore and identify candidates via AI, and there is a “race to discover” useful molecules in-silico. However, these still have to be synthesized to drive trials and manufacturing development, requiring labs that can handle vastly higher throughput. The proposed project will integrate such AI discovery with our software/robotic based self-driving wet lab. The goal is to show an end-to-end solution suitable for use across multiple industries and optimised across the whole delivery chain. This will be a first-of-a-kind system.



Partner Sought	We are seeking partner(s) in the following areas: 1. End users (e.g. pharma and chemicals companies) 2. Contract Development & Manufacturing Organisations (CDMOs) that work alongside end users. 3. Digital (AI) discovery software companies with complementary in-silico technology. 4. Research & Technology Organisations (RTOs) with relevant R&D capabilities and goals. 5. Universities with long term programmes in this space.
Further Information	Please see here for a link to our latest video.
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