

LayerLogic raises €470,000 in pre-seed funding.

Scientifica Venture Capital backs the Swedish start-up pioneering innovation in food safety.

Swedish deeptech company LayerLogic, a spin-off from Chalmers University of Technology, has announced the closing of a €470,000 pre-seed round led by Scientifica Venture Capital, one of the main investors.

LayerLogic is one of the start-ups selected through Scientifica's call4Ideas *Super Sapiens Europe* and has caught the attention of the investment fund thanks to the development of an innovative **biosensing technology** aimed at fast and accurate **detection** of **food contamination**.

At the core of this innovation is a portable biosensor based on **graphene field-effect transistors** (gFETs).

Thanks to the functionalization of the graphene surface with highly selective receptor molecules, the sensor ensures high sensitivity and precision, enabling the rapid and accurate detection of bacteria, viruses, fungi and contaminant molecules in food.

Furthermore test **results** are delivered digitally **in under 15 minutes, compared to the 2-4 days** required by **traditional methods**.

All of this is integrated into a compact, easily transportable format suitable for direct use on food production lines.

The use of this cutting-edge sensor not only enhances food safety, but also enables producers to significantly reduce downtime and waste - helping to prevent financial losses that, in some cases, can reach up to €200,000 per single contamination event.

The idea behind **LayerLogic** - founded in 2024 in Gothenburg, Sweden - originated within the Department of Quantum Device Physics, Microtechnology and Nanoscience at Chalmers University. Chalmers Ventures - the university's venture builder - was, in fact, the first to believe in LayerLogic.

The team was formed through the meeting of three engineers - André Persson (CEO), Ebba Sandbecker (CCO), and Sebastian Samuelsson (CFO) - and three researchers: Munis Khan, Avgust Yurgens and Santosh Pandit. The latter are active in the fields of nanotechnology and two-dimensional materials, with a particular focus on the development of graphene-based devices.

"We chose to invest in LayerLogic because it represents a virtuous example of how materials science can translate into scalable innovation with high industrial and social impact. The combination of proprietary technology, a multidisciplinary team and a clear market positioning aligns perfectly with our investment strategy," said **Riccardo D'Alessandri, Managing Partner at Scientifica Venture Capital**.

"We want to put the power of science directly into the hands of those who produce and monitor the food we eat every day. We believe in a future where food quality and safety can be guaranteed in real time" said **André Persson, CEO of LayerLogic**.

Sustainability and social impact are among the core values of the Swedish team, who emphasizes that the early detection of pathogens is directly linked to protecting consumer health, reducing food waste and promoting more conscious and responsible production practices.

For this reason, LayerLogic will use the funding from this round to accelerate the final development and deployment of their sensor technology, with the goal of bringing the product to market quickly and driving tangible impact in food safety.

Downloadable team photos are available [here](#)

Learn more about LayerLogic [here](#)

About Scientifica

Scientifica operates as an Operational Venture Capital, partnering with founders by combining capital with strategic expertise, advanced infrastructure and hands-on operational support. From pre-seed to scale-up, Scientifica empowers start-ups through every stage of growth-driving technological development, market positioning, branding and go-to-market execution.

Its 4,000 sqm innovation hub includes cutting-edge prototyping labs and a multidisciplinary team working closely with founders to turn ambitious ideas into impactful ventures.

Guided by a passion for science, technology, and sustainable progress, Scientifica invests in the sparks that expand the boundaries of what's possible.