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Precision lasers from Poland conquer global markets – Fluence Technology secures PLN 28 million investment



Fluence Technology, founded by four Polish physicists, received PLN 19 million in funding from Vinci S.A. Additional PLN 3 million was contributed by Radix Ventures. The total round, which also included participation from previous investors JR Holding, Altamira, Vigo Ventures, Bitspiration Booster, and private investors including Zbigniew Łukasiak, amounted to PLN 28.1 million. The company produces some of the most technologically advanced lasers – specifically, fiber-based femtosecond lasers – used by manufacturers of advanced electronics in Asia and the United States. The raised capital will support further development in the industrial, medical, and scientific research sectors, as well as continuing the company's international expansion.

A unique competence center

Fluence Technology's fiber femtosecond lasers offer the highest repeatability and precision in micro machining. They surpass older-generation laser solutions by employing some of the most advanced fiber optic designs in their class. The company stands out with its nearly zero failure rate of its key laser pulse source, ensuring long-term, maintenance-free operation of the entire system. This represents a new standard – until recently, the technology was

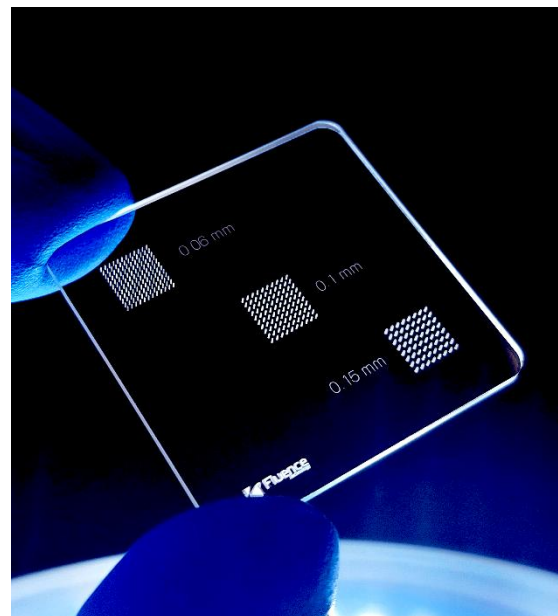


reserved exclusively for research laboratories. Poland boasts strong scientific expertise in this field; however, Fluence Technology is the first project to successfully commercialize it.

"Our goal is for our lasers to be not only competitive and utilize innovative technologies, but also to set new industry standards. Our strong scientific experience certainly helps us achieve this. We are the only producer of this kind in Poland," says Dr. Michał Nejbauer, CEO of Fluence Technology. He adds, "The Polish market is not sufficiently developed to effectively commercialize such advanced solutions. Therefore, international expansion is crucial. The secured funding will allow us to scale our business and broaden application areas."

Laser precision in chip and semiconductor manufacturing

The versatility of femtosecond lasers makes them essential in one of the fastest-growing technology markets – advanced chip and semiconductor manufacturing. This sector requires continuous development to manage high costs, supply chain risks, and geopolitical tensions. Solutions that enable new manufacturing capabilities thus have significant growth and market share potential. Femtosecond lasers are used, for example, to create microvias in integrated circuits, where ongoing miniaturization demands ever-higher precision tools. A special application area is the precise micromachining of silicon, gallium nitride, and silicon carbide – materials used in electronic systems for automotive and AI chips. Femtosecond lasers also play a key role in transforming the electronics industry by replacing traditional glass substrates. The laser enables the production of millions of micrometer-sized holes in glass, which, after metallization, serve as interposers – layers enabling the integration of multiple components. Companies like Intel and Samsung are currently investing in electronics manufacturing based on glass substrates, which are cheaper than silicon, offer excellent thermal stability, and enable faster signal transmission.



Microvias in glass created at the Ultrafast Laser Application Laboratory of Fluence Technology using a femtosecond laser.



From microelectronics to dual-use applications

The new funding round supports Fluence's strategic goals to develop existing technologies and create new manufacturing capabilities that do not currently exist.

"Fluence Technology proves that strong scientific expertise can be the foundation for innovative business in Poland, successfully competing on the global market," says Bartosz Drabikowski, CEO of Vinci S.A. "The company produces next-generation lasers already used in many cutting-edge industries. Moreover, the area of novel applications is rapidly expanding, including sectors related to security, dual-use, space, and military. The unique nature of Fluence's technology and its primary application areas align perfectly with our portfolio strategy," he adds.



Bartosz Drabikowski, President of the Management Board of Vinci S.A.

The unique features of Fluence Technology's lasers – compact size, high resistance to shocks and harsh environments, and maintenance-free operation – make them suitable for the most demanding sectors. This reliability and technological maturity make the company an especially attractive partner for further scaling and development. Radix Ventures – a fund whose main investor is the European Investment Fund – also decided to invest.

"I have had the opportunity to follow the Fluence team's development almost from the very beginning; thus, I am especially pleased that Radix Ventures can join as an investor in this company," says Paweł Bochniarz, General Partner at Radix Ventures. "The founders' persistence and determination, combined with the ability to deliver advanced technological products to demanding clients in Asia, North America, and Europe, create a solid foundation for Fluence's future growth, especially as new femtosecond laser applications continuously emerge."



Fluence Technology at the most important industry trade fair in Europe – Laser World of Photonics Munich, June 2025.



Innovations in consumer electronics

Modern femtosecond lasers are used to produce photonic components, microLED displays, consumer electronics parts, and medical devices. Fluence's key markets are East Asia and the United States – global centers for consumer electronics production such as smartphones, smartwatches, and advanced mobile and large-format displays. The company's solutions are also utilized in research institutes and innovative tech startups developing new applications.



Fluence femtosecond lasers find applications in areas such as consumer electronics, the semiconductor industry, and medical devices.

"The investment in Fluence Technology aligns with BGK's strategy, which is based on stimulating the development of an innovative economy and supporting the international expansion of Polish companies. Through the Vinci fund, we can support the company in further developing its technology and business applications, as well as competing in global markets with highly advanced industrial technologies. This allows us to promote the achievements of Polish scientists", emphasizes Jarosław Dąbrowski, a member of the Management Board of Bank Gospodarstwa Krajowego responsible for the development of Vinci SA funds.

The laser market in which Fluence operates is estimated at over USD 21 billion in 2025, with forecasts suggesting growth to USD 30 billion by 2030.

About Vinci

Vinci S.A. is one of Poland's largest venture capital fund managers, part of the Bank Gospodarstwa Krajowego Group. The company manages alternative investment entities with over PLN 1 billion in capital, focusing on investments in innovative Polish technology companies. Vinci supports firms at various development stages, offering financing from PLN 10 to 90 million. Its mission is to support the development of advanced technologies in Poland and scale businesses both locally and internationally.

About Radix Ventures

Radix Ventures is an early-stage venture capital firm investing in deep-tech projects with a transformational impact on both traditional industries—such as manufacturing, energy, and mobility—and emerging sectors of the new economy, including space, dual-use technologies, and next-generation computing. We prefer to back innovations that deliver a positive environmental impact, supporting visionary founders with capital, expertise, and a global network to effectively scale breakthrough solutions.

About Fluence Technology

Fluence Technology excels in developing and producing femtosecond lasers with a unique all-fiber design, ensuring exceptional stability and performance for industrial applications. With a robust



presence in the industry, Fluence has crafted fiber-based femtosecond lasers renowned for their oscillator stability, supported by the industry's first 5-year warranty.

Prioritizing quality and performance, Fluence's lasers are widely used in displays, consumer electronics, semiconductors, automotive, and medical devices. Their products are distributed in over 20+ countries, showcasing their global impact and reliability.

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