

French deep-tech company offers nanoscale thermal metrology technology and seeks commercial and technical cooperation partners.

Summary

Profile type

Technology offer

Company's country

France

POD reference

TOFR20260910019

Profile status

PUBLISHED

Type of partnership

Commercial agreement with technical assistance
Research and development cooperation agreement

Targeted countries

- Czechia
- Belgium
- Germany
- Croatia
- Denmark
- Cyprus
- Austria
- Estonia
- Bulgaria
- Finland
- Ireland
- Malta
- Sweden
- Slovakia
- Lithuania
- Latvia
- Luxembourg
- Spain
- Poland
- Hungary
- France
- Slovenia
- Netherlands

- Romania
- Portugal
- Greece
- Italy
- Japan

Contact Person

[Myrthe BONGERS](#)

Term of validity

14 Sep 2026

14 Sep 2027

Last update

7 Oct 2026

General Information

Short summary

A French deep-tech company offers a quantitative nanoscale thermal metrology technology combining high-sensitivity thermal probes, low-noise electronics and dedicated measurement methods. The technology enables temperature mapping and investigation of heat transfer at the nanoscale using atomic force microscopy. Commercial and technical cooperation is sought.

Full description

A French deep-tech company specialized in scientific instrumentation and thermal metrology is developing a technology for quantitative characterization of thermal phenomena at the nanoscale.

Thermal management is becoming increasingly important in semiconductor devices, power electronics, advanced packaging and new materials. Conventional thermal characterization methods may provide limited spatial resolution or require indirect measurement approaches, making it difficult to investigate localized heating and heat transfer at very small scales.

The technology offered combines high-sensitivity niobium nitride thermal probes, low-noise electronics and dedicated measurement methods. Integrated with atomic force microscopy, it enables quantitative mapping of temperature and investigation of heat transfer at the nanoscale.

The technology can be used to characterize semiconductor devices and materials, investigate localized thermal effects, and support research and development activities in areas such as advanced semiconductor devices, power electronics, advanced packaging and thin films.

The company is seeking international partners with established access to relevant markets and technical communities. Potential partners include atomic force microscopy manufacturers and distributors, scientific instrumentation distributors, system integrators and specialized sales representatives.

A commercial agreement with technical assistance is considered to support market development, customer demonstrations and technology transfer. Depending on the partner's capabilities, cooperation could also include integration of the thermal measurement technology into an existing microscopy or analysis platform. Technical co-development and application development may be explored with partners able to contribute complementary expertise.

Advantages and innovations

The technology provides a quantitative approach to nanoscale thermal characterization by combining a sensitive thermal probe with dedicated low-noise electronics and atomic force microscopy.

Its measurement approach is intended to provide localized thermal information at the nanoscale, supporting the investigation of temperature distributions and heat-transfer phenomena that are difficult to characterize using conventional macroscopic thermal measurement techniques.

The technology is applicable to several growing areas of semiconductor and materials research, including advanced semiconductor devices, power electronics, advanced packaging and thin films.

The company is a newly established deep-tech SME with a focused technological offering and is seeking partners able to contribute established market access, application expertise and customer relationships. Cooperation with experienced microscopy or scientific instrumentation partners could facilitate the adaptation of the technology to specific user requirements and the development of application-specific solutions.

Technical specification or expertise sought

Partners with expertise in AFM, nanoscale thermal characterization, semiconductor metrology, scientific instrumentation and technology integration are sought.

Stage of development

Under development

IPR Status

Secret know-how

IPR Notes

Sustainable Development goals

• Goal 9: Industry, Innovation and Infrastructure

Partner Sought

Expected role of the partner

The company is seeking European partners with established relationships with atomic force microscopy users, semiconductor research organisations, industrial research and development centres, universities or failure analysis laboratories.

For commercial cooperation, the partner should be able to identify and qualify relevant potential customers, introduce the technology to appropriate organisations, support local demonstrations and provide first-level commercial follow-up.

Suitable partners may include manufacturers or distributors of atomic force microscopy equipment, scientific instrumentation distributors, system integrators and specialized sales representatives.

Partners with technical capabilities may additionally contribute to installation, user training, application development and local technical support. Experience in atomic force microscopy, thermal characterization, semiconductor metrology, scientific instrumentation or nanotechnology would be particularly relevant.

The company is interested in establishing a long-term market presence in European countries and in obtaining structured feedback on customer requirements and applications. Where complementary technical expertise exists, technical co-development and integration into existing microscopy or analysis platforms may also be explored.

Type of partnership

Commercial agreement with technical assistance
Research and development cooperation agreement

Type and size of the partner

- **Other**
- **SME 11-49**
- **SME 50 - 249**
- **University**
- **R&D Institution**
- **Big company**

Dissemination

Technology keywords

- **01002001 - Micro and Nanotechnology related to Electronics and Microelectronics**
- **02002016 - Microengineering and nanoengineering**
- **01002012 - Semiconductors**
- **01002007 - Nanotechnologies related to electronics & microelectronics**
- **09001010 - Thermal material testing**

Market keywords

- **03007002 - Other measuring devices**
- **03001001 - Semiconductors**
- **08002002 - Industrial measurement and sensing equipment**
- **03004002 - Components testing equipment**
- **03004001 - Semiconductor fabrication equipment and wafer products**

Targeted countries

- Czechia
- Belgium
- Germany
- Croatia
- Denmark
- Cyprus
- Austria
- Estonia
- Bulgaria
- Finland
- Ireland
- Malta
- Sweden
- Slovakia
- Lithuania
- Latvia
- Luxembourg
- Spain
- Poland
- Hungary
- France
- Slovenia
- Netherlands
- Romania
- Portugal
- Greece
- Italy
- Japan

Sector groups involved

- Electronics