

This document aims to provide companies with non-French-speaking staff with a translation of key information about the TAM. This document has no legal value and the translation is for information purposes only.

Project summary

1. The project consists on the development of :

Acquisition, delivery, and installation of a transient absorption microscope for the Institut des NanoSciences de Paris (INSP), UMR 7588 CNRS.

Objective: Enable time- and space-resolved measurements of charge carrier diffusion and heat in thin semiconductor and metal layers, and spatially resolved transient spectroscopy in the visible and near-infrared range.

Scope: The system must be turnkey, multi-user, and capable of confocal and wide-field imaging, with femtosecond to microsecond temporal resolution and micron spatial resolution.

2. Technical specifications

2.1 General specifications:

- System Type: Transient absorption/reflection microscope, including:
 - laser sources
 - wavelength tunability
 - pump–probe delay generation
 - broadband probe generation
 - sample mounting
 - microscope elements
 - detectors and filtering
 - electronics and data collection/analysis software.
- Functionalities:
 - Ultrafast and nanosecond–microsecond transient absorption and transient reflection microscopy.
 - Spatial, temporal and spectral resolution.
 - Confocal and wide-field imaging modes.
 - Complete system for carrier diffusion and lifetime mapping.

2.2 Expected performances:

- Temporal Resolution: <200 fs to >1 μ s.
- Spatial Resolution: <1 μ m.
- Spectral Range: Visible to near-infrared (NIR).
- Laser Sources:
 - Ultrafast laser: <200 fs pulse, >400 μ J energy, \geq 20 W average power, 1 Hz to 100 kHz repetition rate.
 - White light probe source: <1 ns pulse, 350–2200 nm spectral range.
- Wavelength Conversion: 320–2600 nm, <400 fs output pulse, <2% stability.
- Microscopy Features:
 - Transmission/reflection: 420–1600 nm.

- Objectives: Visible ($NA \geq 0.6$), NIR ($NA > 0.7$).
- Spot size: Confocal ($<1 \mu\text{m}$ pump, $<2 \mu\text{m}$ probe), wide-field ($>40 \mu\text{m}$ probe).
- Imaging resolution: $<1 \mu\text{m}$.
- Piezo stage: $\leq 7 \text{ nm}$ resolution, $\geq 250 \mu\text{m}$ range.
- Detection:
 - CMOS camera: 400–950 nm, $>480 \times 640$ pixels, $\leq 9 \mu\text{m}$ pixel size, $\geq 70 \text{ dB}$ dynamic range, $>1000 \text{ kHz}$ frame rate.
 - Spectrometer:
 - Visible (200–1000 nm, $\leq 4 \text{ nm}$ resolution)
 - NIR (800–1600 nm, $\leq 13 \text{ nm}$ resolution).

2.4 Controller and data acquisition system

Software Requirements:

- Automated control of delay stages, wavelength conversion, and data acquisition.
- Rejection of unstable data.
- Randomization of data collection points.
- Continuous data collection.
- Multi-user access and custom program development.

2.5 Safety

- Compliance: All equipment must comply with CE standards and French environmental/safety regulations.

2.6 Maximum weight and dimensions

- Installation: System must fit on a 2.5 m x 1.2 m optical table.
- Access: Laboratory is on the 5th floor, accessible via freight elevator (door dimensions: 120 cm x 200 cm).

2.7 Delivery, installation, warranty and maintenance

- Delivery: Within 6 months of contract notification.
- Installation: On-site, including setup and commissioning.
- Training: On-site training for at least 5 users (instrument use, software, basic maintenance).
- Warranty: Minimum 2 years, covering defects in materials and workmanship. According to Article 33 of the CCAG-FCS of the French ministerial decree of March 22, 2021, the costs of travel, packaging, and transport of equipment required for the repair or replacement of defective services or supplies should be included in the guarantee for at least one year.
- After-Sales Service: Diagnosis within 1 week, repair within agreed timeframe. Spare parts available for 10 years post-production.

3. Provisional schedule

End of call for tenders and deadline for receipt of offers: March 20, 2026 at 12:00

Result announcement and purchase of order : end of March 2026

Limit date for delivery : 6 months maximum from purchase of order

Limit date for reception : 1 month maximum after delivery ,installation and commissioning

.Contents of the Tender

The Tenderer shall submit a complete tender comprising the following documents:

Application Documents

- Form DC1 – Letter of Application and, where applicable, Designation of the Lead Member and/or Authorisation of the Representative(available at: <https://www.economie.gouv.fr/daj/formulaires-declaration-candidature>)
- Form DC2 – Declaration by the Individual Tenderer or by Each Member of the Grouping(available at: <https://www.economie.gouv.fr/daj/formulaires-declaration-candidatur>)
- OR The European Single Procurement Document (ESPD / DUME), duly completed, where required(available at: <https://simap.ted.europa.eu/web/simap/esdps>)
- A declaration on honour stating that the Tenderer is not subject to any of the grounds for exclusion from public procurement procedures;
- Documents relating to the Tenderer's legal, economic and financial capacity;
- Documents relating to the Tenderer's technical and professional capacity, including a list of similar contracts performed over the last [three/five] years, indicating the subject matter, amount, dates, and public or private recipients, together with any supporting certificates where applicable.

Tender Offer

- the Deed of Commitment (ATTRI 1);
- The Technical Offer;
- The Detailed Financial Offer

4. Evaluation Criteria and Weighting 5.

All Tenders will be evaluated on the basis of the following criteria and sub-criteria. The weighting assigned to each criterion reflects its relative importance in the overall assessment.

Criteria / Sub-criteria	Weighting (points)
Criterion 1: Technical Value Assessed on the basis of the Tenderer's Technical Offer	55
Sub-criterion 1: Functionality and performance of carrier diffusion measurements by transient absorption and reflection	10
Sub-criterion 2: Functionality and performance of spatial aspects of transient absorption and reflection kinetics measurements	10
Sub-criterion 3: Functionality and performance of transient absorption and reflection spectroscopy in the visible and infrared	10
Sub-criterion 4: Guarantees in terms of resolution and range in time, space, and wavelength	10
Sub-criterion 5: Guarantees in terms of power and wavelength tuning of the main laser	5
Sub-criterion 6: Guarantees in terms of software solution for data collection and processing	5
Sub-criterion 7: Guarantees in terms of overall functional integration of the proposed system	3
Sub-criterion 8: Warranty and Quality of After-Sales Service (duration of warranty, intervention modalities and times)	2
Criterion 2: Price Assessed on the basis of the Financial Response Framework (CRF)	30
Criterion 3: Delivery Time	5
Criterion 4: Environmental Aspects	10
Sub-criterion 1 : Electrical consumption (in kW or kVA) – Assessed on the basis of the Tenderer's Technical Offer	2
Sub-criterion 2 : Environmental impact of components (estimated lifetime of laser sources and critical components, availability of spare parts, etc.)	8

5. Payments schedule

- 30% upon order
- 70% upon delivery, once verification is positive and the advance has been repaid
- 30% upon acceptance