

118673-2026 - Competition

Finland – Measuring instruments – Kelvin probe force microscopy (KPFM)

OJ S 35/2026 19/02/2026

Contract or concession notice – standard regime

Supplies

1. Buyer

1.1. Buyer

Official name: VTT Technical Research Centre of Finland Ltd

Email: kilpailutus@vtt.fi

Legal type of the buyer: Public undertaking

Activity of the contracting authority: Economic affairs

2. Procedure

2.1. Procedure

Title: Kelvin probe force microscopy (KPFM)

Description: The object of the tender process is a Kelvin probe force microscopy (KPFM) equipped with atomic force microscopy (AFM) functionality, a state-of-the-art detector system, and equipment for advanced material surface potential mapping with an efficient spatial resolution and a minimum of topographical artifacts (later also “Equipment”). The equipment should support both AM- and FM-KPFM modes, operate with a potential range up to ± 10 V, with a reasonable spatial resolution. The applied voltage should be from a few hundred millivolts to a few volts (approximately 1-2 V) for AC and DC, and the device must be equipped with advanced control electronics and software for quantitative analysis. An integrated cooling and heating control with a large temperature range (from possibly -30°C up to $+90^{\circ}\text{C}$) in both air and liquid environments is required to enable in-situ studies under variable atmospheric conditions. The system should provide stable scanning, possibly flexible imaging modes of tapping and/or non-contacting, and compatibility with applications across metals and energy materials. Because of this, the system must allow large samples with complex topography. The technical specification of the equipment and the tender process to be supplied is discussed in more detail in the invitation to tender documents. The object of the tender process is described in more detail in the invitation to tender documents.

Procedure identifier: 9254dad3-1129-469d-83fc-aab1c11fe69e

Internal identifier: Reg.no. 59/206/2025

Type of procedure: Open

The procedure is accelerated: no

Main features of the procedure: The tender process is based on the open procedure applicable to contracts that exceed the EU procurement threshold.

2.1.1. Purpose

Main nature of the contract: Supplies

Main classification (cpv): 38300000 Measuring instruments

2.1.2. Place of performance

Country subdivision (NUTS): Helsinki-Uusimaa (FI1B1)

Country: Finland

Additional information: Please see invitation to tender.

2.1.4. General information

Additional information: The objective is to find one professional supplier that can supply high-quality equipment, equipment installation, and user training. VTT Technical Research Centre of Finland Ltd will choose one supplier from among the tenderers.

Legal basis:

Directive 2014/24/EU

2.1.6. Grounds for exclusion

Sources of grounds for exclusion: Procurement Document

5. Lot

5.1. Lot: LOT-0000

Title: Kelvin probe force microscopy (KPFM)

Description: The object of the tender process is a Kelvin probe force microscopy (KPFM) equipped with atomic force microscopy (AFM) functionality, a state-of-the-art detector system, and equipment for advanced material surface potential mapping with an efficient spatial resolution and a minimum of topographical artifacts (later also "Equipment"). The equipment should support both AM- and FM-KPFM modes, operate with a potential range up to ± 10 V, with a reasonable spatial resolution. The applied voltage should be from a few hundred millivolts to a few volts (approximately 1-2 V) for AC and DC, and the device must be equipped with advanced control electronics and software for quantitative analysis. An integrated cooling and heating control with a large temperature range (from possibly -30°C up to $+90^{\circ}\text{C}$) in both air and liquid environments is required to enable in-situ studies under variable atmospheric conditions. The system should provide stable scanning, possibly flexible imaging modes of tapping and/or non-contacting, and compatibility with applications across metals and energy materials. Because of this, the system must allow large samples with complex topography. The technical specification of the equipment and the tender process to be supplied is discussed in more detail in the invitation to tender documents. The object of the tender process is described in more detail in the invitation to tender documents.

Internal identifier: Reg.no. 59/206/2025

5.1.1. Purpose

Main nature of the contract: Supplies

Main classification (cpv): 38300000 Measuring instruments

5.1.2. Place of performance

Country subdivision (NUTS): Helsinki-Uusimaa (FI1B1)

Country: Finland

Additional information: Please see invitation to tender.

5.1.3. Estimated duration

Duration: 6 Months

5.1.6. General information

Reserved participation:

Participation is not reserved.

Procurement Project not financed with EU Funds.

The procurement is covered by the Government Procurement Agreement (GPA): yes

This procurement is also suitable for small and medium-sized enterprises (SMEs): yes

Additional information: The objective is to find one professional supplier that can supply high-quality equipment, equipment installation, and user training. VTT Technical Research Centre of Finland Ltd will choose one supplier from among the tenderers.

5.1.7. Strategic procurement

Social objective promoted: Human rights due diligence in global supply chains

5.1.9. Selection criteria

Sources of selection criteria: Procurement Document

5.1.10. Award criteria

Criterion:

Type: Price

Description: The evaluation of the tenders is described in section 'Grounds for decision'.

Category of award weight criterion: Weight (percentage, exact)

Award criterion number: 50

Criterion:

Type: Quality

Description: The evaluation of the tenders is described in section 'Grounds for decision'.

Category of award weight criterion: Weight (percentage, exact)

Award criterion number: 50

5.1.11. Procurement documents

Languages in which the procurement documents are officially available: English

Deadline for requesting additional information: 02/03/2026 10:00:00 (UTC+00:00) Western European Time, GMT

Address of the procurement documents: <https://tarjouspalvelu.fi/vtt?id=573780&tpk=8a9535a7-1f42-4f03-ab67-aad0ccea4ab0>

5.1.12. Terms of procurement

Terms of submission:

Electronic submission: Required

Address for submission: <https://tarjouspalvelu.fi/vtt?id=573780&tpk=8a9535a7-1f42-4f03-ab67-aad0ccea4ab0>

Languages in which tenders or requests to participate may be submitted: English

Electronic catalogue: Not allowed

Variants: Not allowed

Tenderers may submit more than one tender: Not allowed

Deadline for receipt of tenders: 19/03/2026 10:00:00 (UTC+00:00) Western European Time, GMT

Duration during which the tender must remain valid: 5 Months

Information about public opening:

Opening date: 19/03/2026 10:05:00 (UTC+00:00) Western European Time, GMT

Place: Tarjousten avaamisen ajankohta on alustava. Tarjousten avaustilaisuus ei ole julkinen.

Terms of contract:

The execution of the contract must be performed within the framework of sheltered employment programmes: No

Conditions relating to the performance of the contract: A binding contract between the parties concerning the subject of the procurement shall not enter into force until both parties have signed the contract. For more information, please see the invitation to tender.

Electronic invoicing: Required

Electronic ordering will be used: no

Electronic payment will be used: yes

5.1.15. Techniques

Framework agreement:

No framework agreement

Information about the dynamic purchasing system:

No dynamic purchase system

5.1.16. Further information, mediation and review

Review organisation: Markkinaoikeus

Information about review deadlines: The appeal period is determined in accordance with the Procurement Act (1397/2016).

Organisation providing additional information about the procurement procedure: VTT

Technical Research Centre of Finland Ltd

Organisation receiving requests to participate: VTT Technical Research Centre of Finland Ltd

Organisation processing tenders: VTT Technical Research Centre of Finland Ltd

8. Organisations

8.1. ORG-0001

Official name: Markkinaoikeus

Registration number: 3006157-6

Postal address: Radanrakentajantie 5

Town: Helsinki

Postcode: 00520

Country subdivision (NUTS): Helsinki-Uusimaa (FI1B1)

Country: Finland

Email: markkinaoikeus@oikeus.fi

Telephone: +358 295643300

Internet address: <http://www.oikeus.fi/markkinaoikeus>

Roles of this organisation:

Review organisation

8.1. ORG-0002

Official name: VTT Technical Research Centre of Finland Ltd

Registration number: 2647375-4

Postal address: P.O. Box 1000, VTT

Town: Espoo

Postcode: 02044

Country subdivision (NUTS): Helsinki-Uusimaa (FI1B1)

Country: Finland

Contact point: VTT Technical Research Centre of Finland Ltd

Email: kilpailutus@vtt.fi

Telephone: +358 20722111

Internet address: <https://www.vttresearch.com/fi>

Roles of this organisation:

Buyer

Organisation providing additional information about the procurement procedure

Organisation receiving requests to participate

Organisation processing tenders

8.1. ORG-0003

Official name: Hansel Oy (Hilma)

Registration number: FI09880841

Postal address: Mannerheiminaukio 1a

Town: Helsinki

Postcode: 00100

Country subdivision (NUTS): Helsinki-Uusimaa (FI1B1)

Country: Finland

Contact point: eSender

Email: tekninen@hankintailmoitukset.fi

Telephone: 029 55 636 30

Internet address: <http://hankintailmoitukset.fi>

Roles of this organisation:

TED eSender

Notice information

Notice identifier/version: f17d3fdc-408c-42ab-b7e9-8a785b64551f - 01

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Notice type: Contract or concession notice – standard regime

Notice subtype: 16

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