See the notice on TED website

Finland-Aalto: Laboratory, optical and precision equipments (excl. glasses)
OJ S 148/2022 03/08/2022
Contract award notice
Supplies

Legal Basis:
Directive 2014/24/EU

Section I: Contracting authority

I.1. Name and addresses

Official name: Aalto University Foundation sr
National registration number: 2228357-4
Town: AALTO
NUTS code: FI1B1 Helsinki-Uusimaa
Country: Finland
E-mail: floris.reurings@aalto.fi
Internet address(es):
Main address: http://www.aalto.fi/en/

I.4. Type of the contracting authority

Body governed by public law

I.5. Main activity

Education

Section II: Object

II.1. Scope of the procurement

II.1.1. Title

Two electron detectors for transmission electron microscopes
Reference number: D/300/01.01.04.00/2022

II.1.2. Main CPV code

38000000 Laboratory, optical and precision equipments (excl. glasses)

II.1.3. Type of contract

Supplies

II.1.4. Short description

Two electron detectors for transmission electron microscopes.

II.1.6. Information about lots

This contract is divided into lots: no

II.1.7. Total value of the procurement

Value excluding VAT: 669 530,00 EUR

II.2. Description

II.2.3. Place of performance

NUTS code: FI1B1 Helsinki-Uusimaa

II.2.4. Description of the procurement

The main application for electron detectors is to facilitate transmission electron microscope (TEM) imaging. Aalto University is looking to purchase two electron detectors to enhance its imaging capabilities. The detectors are to be installed in the existing TEM instruments, preferably retaining the older CCD detectors (one in each TEM).
The first detector will be installed in the dedicated 300 kV cryoTEM (JEOL JEM-3200FSC). This detector should allow imaging under the extremely low dose conditions often employed with beam sensitive materials. The workflow used with block co-polymer sections relies heavily on live Fourier transform of the live image (live-FFT). The software must deliver live-FFT of sufficient quality to identify areas of interest in real time. However, the most sensitive block co-polymer sections are typically ruined at first exposure to the electron beam. Therefore, the detector should include a continuous image buffer of the live image so that at least the live frame can be salvaged. The detector must be able to perform single electron counting and dose fractionation. The detector will also be used for diffraction and EFTEM imaging where a linear acquisition mode will be useful. The microscope is also operated at lower voltages when necessary, therefore consistent detector performance across voltage ranges 100 kV to 300 kV is appreciated. This detector is required to fulfil a versatile use role with emphasis on detective quantum efficiency and high signal-to-noise ratio with low inherent noise.
The second detector will be installed in the analytical 200 kV TEM (JEOL JEM-2800). The user base of this microscope is highly varied and the microscope is used to study beam insensitive materials as well as beam sensitive materials. Aalto University wants to enhance the systems capabilities regarding beam sensitive materials and in-situ studies with a faster, more sensitive detector. This detector is not required to perform single electron counting. In addition to frame rate and sensitivity the detector must have a continuous image buffer.

II.2.5. Award criteria

Price

II.2.11. Information about options

Options: no

II.2.13. Information about European Union funds

The procurement is related to a project and/or programme financed by European Union funds: no

II.2.14. Additional information

Section IV: Procedure

IV.1. Description

IV.1.1. Type of procedure

Open procedure

IV.1.3. Information about a framework agreement or a dynamic purchasing system

IV.1.8. Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: yes

IV.2. Administrative information

IV.2.1. Previous publication concerning this procedure
Notice number in the OJ S: 2022/S 089-239897

IV.2.8. Information about termination of dynamic purchasing system

IV.2.9. Information about termination of call for competition in the form of a prior information notice

Section V: Award of contract

Contract No: D/300/01.01.04.00/2022

Title:
Two electron detectors for transmission electron microscopes

A contract/lot is awarded: yes

V.2. Award of contract

V.2.1. Date of conclusion of the contract
28/07/2022

V.2.2. Information about tenders
Number of tenders received: 2
Number of tenders received from SMEs: 2
Number of tenders received by electronic means: 2
The contract has been awarded to a group of economic operators: no

V.2.3. Name and address of the contractor
Official name: Oxford Instruments GmbH
National registration number: HRB 21599
Town: Wiesbaden
NUTS code: DE714 Wiesbaden, Kreisfreie Stadt
Country: Germany
The contractor is an SME: yes

V.2.4. Information on value of the contract/lot
Total value of the contract/lot: 669 530,00 EUR

V.2.5. Information about subcontracting

Section VI: Complementary information

VI.3. Additional information

VI.4. Procedures for review

VI.4.1. Review body
Official name: The Market Court
Postal address: Sörnäistenkatu 1
Town: Helsinki
Postal code: 00580
Country: Finland
E-mail: markkinaoikeus@oikeus.fi

Telephone: +358 295643300
Internet address: http://www.oikeus.fi/markkinaoikeus

VI.5. Date of dispatch of this notice

29/07/2022