1. Buyer

1.1 Buyer

Official name:	Universiteit Leiden
Legal type of the buyer:	Body governed by public law
Activity of the contracting authority:	Education

2. Procedure

2.1 Procedure

Title:	Cryo Transmission Electron Microscope
Description:	The Leiden Institute of Chemistry (LIC) seeks to purchase a state-of-the-art 200kV Glacios 2 cryo-TEM system for the performance of advanced cryo-transmission electron microscopy (cryo-TEM) experiments in the frame of the Oncode Accelerator project. Specifically, the instrument will be required for the following specific experiments: Sample screening and initial data collection prior to imaging on the existing Titan Krios systems in our facility for highest resolution data collection of challenging samples; High resolution single particle analysis (SPA) for the detailed analysis of Protein-Ligand and Protein-Protein interactions; Cryo-electron tomography (cryo-ET) for the analysis of cellular structures at nanometer resolution; Collection of electron diffraction data for the analysis of protein crystals. The Glacios 2 will be integrated as local Leiden University cryo-EM infrastructure within the onsite national NeCEN facility (Netherlands Centre for Electron Nanoscopy) and therefore it is of utmost importance that the instrument integrates seamlessly into the workflows of NeCEN to ensure maximum productivity and minimize instrument downtimes. NeCEN owns two ThermoFisher Titan Krios 300kV cryo-TEM microscopes.
Procedure identifier:	c50333e0-6936-4c81-a263-47488b04419e
Previous notice :	e544a8c6-747c-4c87-89a5-9a2c7b3e3ad0-01
Internal identifier:	30899
Type of procedure:	Negotiated without prior call for competition

2.1.1 Purpose

Main nature of the contract:	Supplies
Main classification (cpv):	38511200 Transmission electron microscope
Additional classification (cpv):	38511000 Electron microscopes

2.1.2 Place of performance

Country subdivision (NUTS):	Agglomeratie Leiden en Bollenstreek (NL337)
Country:	Netherlands
Additional information:	See documentation

2.1.3 Value

Estimated value excluding VAT:	2 206 000 Euro

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2.1.4 General information

Call for competition is terminated

Additional information:	No representations were received within 20 days after this publication, so the contract wase awarded.

Legal basis:

Directive 2014/24/EU

5. Lot

5.1 Lot technical ID: LOT-0000

Title:	Cryo Transmission Electron Microscope
Description:	The Leiden Institute of Chemistry (LIC) seeks to purchase a state-of-the-art 200kV Glacios 2 cryo-TEM system for the performance of advanced cryo-transmission electron microscopy (cryo-TEM) experiments in the frame of the Oncode Accelerator project. Specifically, the instrument will be required for the following specific experiments: Sample screening and initial data collection prior to imaging on the existing Titan Krios systems in our facility for highest resolution data collection of challenging samples; High resolution single particle analysis (SPA) for the detailed analysis of Protein-Ligand and Protein-Protein interactions; Cryo-electron tomography (cryo-ET) for the analysis of cellular structures at nanometer resolution; Collection of electron diffraction data for the analysis of protein crystals. The Glacios 2 will be integrated as local Leiden University cryo-EM infrastructure within the onsite national NeCEN facility (Netherlands Centre for Electron Nanoscopy) and therefore it is of utmost importance that the instrument integrates seamlessly into the workflows of NeCEN to ensure maximum productivity and minimize instrument downtimes. NeCEN owns two ThermoFisher Titan Krios 300kV cryo-TEM microscopes.
Internal identifier:	30899

5.1.1 Purpose

Main nature of the contract:	Supplies
Main classification (cpv):	38511200 Transmission electron microscope
Additional classification (cpv):	38511000 Electron microscopes

5.1.2 Place of performance

Country subdivision (NUTS):	Agglomeratie Leiden en Bollenstreek (NL337)
Country:	Netherlands
Additional information:	See documentation

5.1.5 Value

Estimated value excluding VAT:	2 206 000 Euro

5.1.6 General information

Procurement Project not financed with EU Funds.

The procurement is covered by the Government Procurement	yes

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Agreement (GPA):	
Additional information:	No representations were received within 20 days after this publication, so the contract wase awarded.

5.1.10 Award criteria

Criterion:	
Type:	Price
Name:	Price
Description:	Price
Weight (percentage, exact):	100

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:	Rechtbank Den Haag
Organisation whose budget is used to pay for the contract :	Universiteit Leiden
Organisation executing the payment:	Universiteit Leiden
Organisation signing the contract:	Universiteit Leiden

6. Results

Value of all contracts awarded in this notice:	2 206 000 Euro
Direct award:	
Justification for direct award:	The contract can be provided only by a particular economic operator because of an absence of competition for technical reasons

The Leiden Institute of Chemistry (LIC) seeks to purchase a state-of-the-art 200kV Glacios 2 cryo-TEM system for the performance of advanced cryo-transmission electron microscopy (cryo-TEM) experiments in the frame of the Oncode Accelerator project. Specifically, the instrument will be required for the following specific experiments: (1) Sample screening and initial data collection prior to imaging on the existing Titan Krios systems in our facility for highest resolution data collection of challenging samples; (2) High resolution single particle analysis (SPA) for the detailed analysis of Protein-Ligand and Protein-Protein interactions; (3) Cryo-electron tomography (cryo-ET) for the analysis of cellular structures at nanometer resolution; (4) Collection of electron diffraction data for the analysis of protein crystals. The Glacios 2 will be integrated as local Leiden University cryo-EM infrastructure within the onsite national NeCEN facility (Netherlands Centre for Electron Nanoscopy) and therefore it is of utmost importance that the instrument integrates seamlessly into the workflows of NeCEN to ensure maximum productivity and minimize instrument downtimes. NeCEN owns two ThermoFisher Titan Krios 300kV cryo-TEM microscopes. Several aspects of this instrument are unique and essential for the success of the specific experiments: Sample

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Other justification:	preservation The efficient screening of samples, prior to high-resolution data collection at the 300keV TITAN Krios, will be essential for the Oncode Accelerator project, that predominantly aims to investigate challenging small molecule samples. This process involves two essential aspects: 1) High-Throughput capacity: The Glacios 2 system significantly enhances our screening efficiency. It can simultaneously load 12 samples (grids), which is three times more than alternative vendor instruments. This capability is vital for achieving the desired throughput. 2) Direct transfer to TITAN instruments at NeCEN: More importantly, the Glacios microscope allows us to directly transfer suitable samples, screened at the Glacios, in the same loading cassette and NanoCap to the TITAN systems at NeCEN. This feature is crucial because it eliminates the need for additional sample handling and ensures that the sample quality is optimally preserved. This would clearly not be the case with an instrument of any other vendor: in that case, sample contamination during the required sample transfer from one loading system to the other would be unavoidable and would compromise the integrity of precious samples. Furthermore, the compatibility of the instruments in our local environment extends beyond the transfer between the Glacios and the TITAN: it also includes the seamless sample transfer from the ThermoFisher Aquilos to the Glacios microscope. The Aquilos is a dual-beam instrument that is needed to prepare so called 'lamellae' of thicker samples such as cells for high-resolution cryo-electron tomography experiments. This is required to make these samples amenable for data collection on the Glacios. These lamellae are extremely delicate and any excess sample handling (such as the need to transfer between different loading cassettes) would be extremely deleterious to the success rate of the experimental workflow. High throughput data collection SPA The Oncode Accelerator project requires a high level of automation to guarantee efficient throughput for SPA data collection. The Glacios will be purchased with the state-of-the-art direct electron detector Falcon 4i from Thermo Fisher which is capable of acquiring 400 images per hour. This allows a seamless workflow with automated overnight data collection of several samples. While the instruments from different vendors can also be equipped with such high-end detectors, it would not be possible from a single vendor. Only Thermo Fischer produces an integrated system- enabling smoother service and maintenance for all components from one service team. In addition, the MultiGrid EPU software uniquely enables users to set up data collection on all 12 samples in the cassette and run this experiment without the need for human intervention. The ability to load 12 samples simultaneously, together with the MultiGrid EPU software from Thermo Fisher is the only system that will deliver the required throughput. In addition, many users from the Oncode Accelerator project will be non-expert in cryoEM data collection. Therefore, we require easy to use software to collect SPA, electron diffraction and cryo-ET data, which is provided by Thermo Fisher. Additionally, the camera integrated into the Glacios system (the Falcon 4i) is fully embedded into the software, ensuring ease of operation. Cryo-ET workflows In addition to the already mentioned advantages of the identical autoloader systems provided by the Thermo Fisher instruments ensure the minimization of contamination of the delicate samples, the seamless use of identical software from one vendor is another essential factor. More specifically, the MAPS software that is already in use on our Aquilos system, will ensure the easy and accurate target site identification on the same sample. This is an essential requirement for the success of these challenging workflows. The Glacios has a wide polepiece gap of 11 mm that allows to tilt +/- 70 degrees. This allows for optimal tomography data collection with a minimized missing wedge artifact, which increases the data quality. See for entire justification link to tender website of the university.

6.1 Result lot Identifier: LOT-0000

At least one winner was chosen.

6.1.2 Information about winners

Winner:	
Official name:	FEI Europe BV
Tender:	
Tender identifier:	QUO-178319-K1M1 R0
Identifier of lot or group of lots :	LOT-0000
Value of the result:	2 206 000 Euro
The tender was ranked:	no

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The tender is a variant:	no
Subcontracting :	No
Subcontracting value is known :	no
Subcontracting percentage is known:	no

Contract information:

Identifier of the contract:	QUO-178319-K1M1 R0
Title:	Glacios™ 2
Date on which the winner was chosen:	30/11/2023
Date of the conclusion of the contract:	22/12/2023
The contract is awarded within a framework agreement:	no
Organisation signing the contract:	Universiteit Leiden

8. Organisations

8.1 ORG-0001

Official name:	Universiteit Leiden
Registration number:	27368929
Postal address :	Kolffpad 1
Town:	Leiden
Postcode:	2333BN
Country subdivision (NUTS):	Agglomeratie Leiden en Bollenstreek (NL337)
Country:	Netherlands
Contact point:	Govert Schipperheijn
Email:	inkoop@UFB.leidenuniv.nl
Telephone:	+31 715273304
Internet address:	https://www.universiteitleiden.nl/
Buyer profile:	https://s2c.mercell.com/buyer/19549

Roles of this organisation:

Buyer

Organisation signing the contract

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Organisation whose budget is used to pay for the contract

Organisation executing the payment

8.1 ORG-0002

Official name:	Rechtbank Den Haag
Registration number:	82946175
Department:	Civiel
Postal address :	Postbus 20303
Town:	Den Haag
Postcode:	2500 EH
Country subdivision (NUTS):	Agglomeratie 's-Gravenhage (NL332)
Country:	Netherlands
Contact point:	Informatie
Email:	info@rechtspraak.nl
Telephone:	+31883616161
Internet address:	https://www.rechtspraak.nl/Organisatie-en-contact/Organisatie/Rechtbanken/Rechtbank-Den-Haag

Roles of this organisation:

Review organisation

8.1 ORG-0003

Official name:	FEI Europe BV
Size of the economic operator:	Large
Registration number:	17097158
Town:	Eindhoven
Country:	Netherlands
Email:	info@thermofisher.com
Telephone:	+31 402356000

Roles of this organisation:

Tenderer

Winner of these lots:	LOT-0000

11. Notice information

11.1 Notice information

Notice identifier /version:	62f07cfe-8b30-42bf-a92e-dfe67d2af340 - 01
Form type:	Result
Notice type:	Contract or concession award notice – standard regime
Notice dispatch date:	17/01/2024 10:43 +00:00
Notice dispatch date	17/01/2024 10:43 +00:00

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(eSender):

Languages in which this notice is officially available:	English

11.2 Publication information

Rijksoverheid