

PRIOR INFORMATION NOTICE

Supplies

Directive 2014/24/EU

This notice is for prior information only

SECTION I: CONTRACTING AUTHORITY

I.1) NAME AND ADDRESSES

Official name:

Universiteit Leiden

National ID:

27368929

Postal address:

Postbus 905

Town:

Leiden

NUTS code:

NL

Postal code:

2300 AX

Country:

NL

Contact person:

Govert Schipperheijn

Telephone:

+31 715273304

E-mail:

inkoop@ufb.leidenuniv.nl

Fax:

-

Internet address(es)

Main address:

<https://www.universiteitleiden.nl/>

Address of the buyer profile:

<https://platform.negometrix.com/PublishedTenders.aspx?tenderid=205429>

I.2) JOINT PROCUREMENT

-

I.3) COMMUNICATION

Additional information can be obtained from

the abovementioned address

I.4) TYPE OF THE CONTRACTING AUTHORITY

Body governed by public law

I.5) MAIN ACTIVITY

Other activity: Scientific research and higher education

SECTION II: OBJECT

II.1) SCOPE OF THE PROCUREMENT

II.1.1) Title

Market consultation for a Cryostat system

Reference number: -

II.1.2) CPV code(s)

Main code:

38000000 - Laboratoriuminstrumenten, optische en precisie-instrumenten (uitgezonderd brillen)

Supplementary code:

-

II.1.3) Type of contract

Supplies

II.1.4) Short description

The Leiden Institute of Physics of Leiden University (Contracting Authority) is looking for possible suppliers for a cryostat system for scientific research. The purpose of this market consultation is to establish the number of interested suppliers, so that the correct procurement procedure can be chosen.

II.1.5) Estimated total value

Value excluding VAT: - Currency: -

II.1.6) Information about lots

This contract is divided into lots: no

II.2) DESCRIPTION

II.2.1) Title

-

Lot No: -

II.2.2) Additional CPV code(s)

-

II.2.3) Place of performance

NUTS code:

NL NEDERLAND

Main site or place of performance:

Leiden

II.2.4) Description of the procurement:

(nature and quantity of works, supplies or services or indication of needs and requirements)

In the Hensen group at Leiden University we aim to achieve ultralow vibrations at ultralow temperatures in a cryogen free dilution refrigerator for the study of the interaction between quantum mechanics and gravity using an on-chip levitation platform. This research requires a specialized cryostat system, with the following properties:

To keep operational costs low we need the dilution refrigerator to be cooled with a closed cycle pulse tube system.

The ultralow vibrations, in combination with a closed cycle cryostat require specialized modifications to the cryostat system. In particular, parts of the cryostat that are normally rigidly fixed need to be loosely suspended, to avoid vibrations from entering the experimental space at the bottom of the cryostat.

In order to reach sufficiently low temperatures, below the standard dilution refrigerator temperature of around 10 mK, a PrNi5 nuclear demagnetization stage is required.

Because of the system's size and complexity it is crucial to allow a fast sample exchange mechanism that operates when the fridge is already cold. Such a cold-insertable probe allows for fast testing and prototyping of fabricated chips.

See market consultation document for further information.

II.2.14) Additional information:

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07/08/2022

[I. II. IV. VI.](#)

II.3) ESTIMATED DATE OF PUBLICATION OF CONTRACT NOTICE

19/09/2022

SECTION IV: PROCEDURE

IV.1) DESCRIPTION

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

The procurement is covered by the Government Procurement Agreement: yes

07/08/2022

[I. II. IV. VI.](#)

SECTION VI: COMPLEMENTARY INFORMATION

VI.3) ADDITIONAL INFORMATION

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VI.5) DATE OF DISPATCH OF THIS NOTICE

05/08/2022