

This is a published notice on the Find a Tender service: <https://www.find-tender.service.gov.uk/Notice/036463-2024>

Tender

Tender for The Supply and Install of A Cryomagnetic System For Low Temperature Physics Experiments

THE UNIVERSITY OF BIRMINGHAM

F02: Contract notice

Notice identifier: 2024/S 000-036463

Procurement identifier (OCID): ocds-h6vhtk-04b591

Published 11 November 2024, 3:50pm

Section I: Contracting authority

I.1) Name and addresses

THE UNIVERSITY OF BIRMINGHAM

Edgbaston

BIRMINGHAM

B152TT

Contact

Teisha Rickus

Email

T.Ravenscroft@bham.ac.uk

Country

United Kingdom

Region code

UKG31 - Birmingham

UK Register of Learning Providers (UKPRN number)

133784

Internet address(es)

Main address

www.bham.ac.uk

I.3) Communication

The procurement documents are available for unrestricted and full direct access, free of charge, at

<https://in-tendhost.co.uk/universityofbirmingham.aspx/Home>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<https://in-tendhost.co.uk/universityofbirmingham.aspx/Home>

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

Tender for The Supply and Install of A Cryomagnetic System For Low Temperature Physics Experiments

Reference number

SC13207/24

II.1.2) Main CPV code

- 38340000 - Instruments for measuring quantities

II.1.3) Type of contract

Supplies

II.1.4) Short description

The University of Birmingham invites tenders for supply and installation of a liquid helium ("wet") cryostat fitted with high-field magnet - a cryomagnetic system - suitable for low-temperature physics experiments. The cryomagnetic system will form part of a research lab being established via a UKRI Future Leaders Fellowship funding award, for measuring high-field transport and magnetic properties of quantum materials at low temperatures. The cryomagnet is intended to accommodate a variety of probes and inserts, sourced separately, to allow a wide range of sample environment including access to very low temperature as well as a strong, homogenous and stable magnetic field. Funding stipulates that the system will be open to users outside the group, so the equipment interface should be user friendly, and should interface with existing computer code used in the group.

The cryomagnetic system should house a superconducting magnet assembly with a maximum field strength of at least 16 T (with reversible polarity). The magnet must be able to be switched in and out of persistent-current or driven modes of operation in the standard manner for physics laboratory cryomagnets. Suitable current sources, cryogenic liquid monitors and temperature monitoring should also be included, with easy-to-use computer interfaces to allow MATLAB code to query all these values and send commands to control all aspects of the magnet, including magnetic field ramps.

The instrument should connect directly with the University of Birmingham's helium liquefier system. It should be delivered, installed, and tested on site with a maintenance

and service package, with provision of on-site training.

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.3) Place of performance

NUTS codes

- UKG - West Midlands (England)

II.2.4) Description of the procurement

The University of Birmingham invites tenders for supply and installation of a liquid helium ("wet") cryostat fitted with high-field magnet - a cryomagnetic system - suitable for low-temperature physics experiments. The cryomagnetic system will form part of a research lab being established via a UKRI Future Leaders Fellowship funding award, for measuring high-field transport and magnetic properties of quantum materials at low temperatures. The cryomagnet is intended to accommodate a variety of probes and inserts, sourced separately, to allow a wide range of sample environment including access to very low temperature as well as a strong, homogenous and stable magnetic field. Funding stipulates that the system will be open to users outside the group, so the equipment interface should be user friendly, and should interface with existing computer code used in the group.

The cryomagnetic system should house a superconducting magnet assembly with a maximum field strength of at least 16 T (with reversible polarity). The magnet must be able to be switched in and out of persistent-current or driven modes of operation in the standard manner for physics laboratory cryomagnets. Suitable current sources, cryogenic liquid monitors and temperature monitoring should also be included, with easy-to-use computer interfaces to allow MATLAB code to query all these values and send commands to control all aspects of the magnet, including magnetic field ramps.

The instrument should connect directly with the University of Birmingham's helium liquefier system. It should be delivered, installed, and tested on site with a maintenance and service package, with provision of on-site training.

II.2.5) Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Start date

1 January 2025

End date

1 January 2026

This contract is subject to renewal

No

II.2.10) Information about variants

Variants will be accepted: No

II.2.11) Information about options

Options: No

Section IV. Procedure

IV.1) Description

IV.1.1) Type of procedure

Open procedure

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

The procurement is covered by the Government Procurement Agreement: No

IV.2) Administrative information

IV.2.2) Time limit for receipt of tenders or requests to participate

Date

11 December 2024

Local time

11:00am

IV.2.4) Languages in which tenders or requests to participate may be submitted

English

IV.2.7) Conditions for opening of tenders

Date

11 December 2024

Local time

3:00pm

Section VI. Complementary information

VI.1) Information about recurrence

This is a recurrent procurement: No

VI.4) Procedures for review

VI.4.1) Review body

University of Birmingham

Edgbaston

B15 2TT

Country

United Kingdom