Contract

Synchronised dual amplifier ultrafast laser system

University of Bristol

F03: Contract award notice
Notice identifier: 2022/S 000-020859
Procurement identifier (OCID): ocds-h6vhtk-035792
Published 29 July 2022, 4:09pm

Section I: Contracting authority

I.1) Name and addresses

University of Bristol

4th Floor, Augustine's Courtyard, Orchard Lane

Bristol

BS1 5DS

Email

helen.warren@bristol.ac.uk

Telephone

+44 01179289000

Country

United Kingdom

NUTS code

UK - United Kingdom

Internet address(es)

Main address

www.bristol.ac.uk

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

Synchronised dual amplifier ultrafast laser system

Reference number

Lab-2201-060-PC_2098

II.1.2) Main CPV code

- 38636100 - Lasers

II.1.3) Type of contract

Supplies

II.1.4) Short description

Call-off contract from DPS - AUPC LAB1022 AP

A dual amplified laser system is required to seamlessly track photochemical and photobiological induced dynamics spanning 100s fs to 1 millisecond for Scientific Research.

II.1.6) Information about lots

This contract is divided into lots: No

II.1.7) Total value of the procurement (excluding VAT)

Value excluding VAT: £273,950

II.2) Description

II.2.3) Place of performance

NUTS codes

- UKK11 - Bristol, City of

II.2.4) Description of the procurement

1. Synchronised dual amplifier ultrafast laser system

A dual amplified laser system is required to seamlessly track photochemical and photobiological induced dynamics spanning 100s fs to 1 millisecond. The technical requirements of the laser must meet all the following specifications:

• The two amplifiers must be pumped by solid-state Ytterbium-based lasers for high stability and superior performance

• The footprint of the synchronised dual amplifier and common seed oscillator must be no greater than 1 m^2

• The maximum pulse energy from each amplifier must be 200 microJ at 50 kHz

• The pulse energy from each amplifier must be 100 microJ at 100 kHz

• The pulse-to-pulse energy stability must be

• The beam quality (as defined by M^2) must be better than 1.2

• The repetition rate of each amplifier must be tuneable with an integrated pulse picker from single shot to 200 kHz

• The two amplifiers must be seeded by a single common oscillator operating at 80 MHz

• Using the common oscillator there must be an easily controlled delay in discrete steps of 12.5 ns between the two amplifier outputs between zero delay and 10 microseconds.

• The pulse pickers integrated into the two amplifiers must be used independently. For example, this would allow one amplifier to run at 100 kHz and the other at 50 kHz.

It is essential for the supplier to be able to demonstrate the laser system offered is fully established with references to numerous examples, operating in the field, evidenced by peer reviewed publications from different academic research groups using the offered laser system.

2. Light Conversion ORPHEUS-HP-THS Optical Parametric Amplifier

II.2.5) Award criteria

Quality criterion - Name: Technical / Weighting: 80

Cost criterion - Name: Commercial / Weighting: 20

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

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: Yes

IV.2) Administrative information

IV.2.1) Previous publication concerning this procedure

Notice number: 2020/S 058-140353

Section V. Award of contract

Contract No

Lab-2201-060-PC_2098

Title

Synchronised dual amplifier ultrafast laser system

A contract/lot is awarded: Yes

V.2) Award of contract

V.2.1) Date of conclusion of the contract

25 February 2022

V.2.2) Information about tenders

Number of tenders received: 1

Number of tenders received from SMEs: 1

Number of tenders received by electronic means: 1

The contract has been awarded to a group of economic operators: No

V.2.3) Name and address of the contractor

PHOTONIC SOLUTIONS LIMITED

UNIT 2.2 QUANTUM COURT, RESEARCH PARK, CURRIE, MIDLOTHIAN,

Edinburgh

EH14 4AP

Country

United Kingdom

NUTS code

- UK - United Kingdom

National registration number

SC194276

The contractor is an SME

Yes

V.2.4) Information on value of contract/lot (excluding VAT)

Total value of the contract/lot: £273,950

Section VI. Complementary information

VI.4) Procedures for review

VI.4.1) Review body

University of Bristol

Bristol

Country

United Kingdom