Contract

Distributed sensor interrogators: Acoustic, Strain and Temperature

UNIVERSITY OF EAST ANGLIA

F03: Contract award notice
Notice identifier: 2023/S 000-021931
Procurement identifier (OCID): ocds-h6vhtk-0385fa
Published 28 July 2023, 9:52am

Section I: Contracting authority

I.1) Name and addresses

UNIVERSITY OF EAST ANGLIA

Norwich Research Park,Earlham Road

NORWICH

NR4 7TJ

Contact

Karen Gallant

Email

karen.gallant@uea.ac.uk

Country

United Kingdom

Region code

UKH15 - Norwich and East Norfolk

Companies House

RC000651

Internet address(es)

Main address

https://www.uea.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

Distributed sensor interrogators: Acoustic, Strain and Temperature

Reference number

PURCON 1059

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

Traditional methods of subsurface monitoring are restricted in either time or space. Spot measurements record continuously but lack spatial resolution. Campaign measurements capture high spatial resolution data at a single point in time. Distributed Sensing (DS) is a brand-new technology for environmental research that does not rely upon individual sensors but utilises optical fibre. DS methods will become increasingly used to analyse systems on a new range of scales - the high spatial resolution allows for microscopic-scale studies; the length of cables enables large-scale investigations.

The University of East Anglia has acquired funding for a system that includes distributed acoustic sensor (DAS), distributed strain sensor (DSS) and distributed temperature sensor (DTS). DAS to record high-frequency ground motion associated with natural sources such as earthquakes and active sources for exploration, DSS to record slower ground deformation from sources such as tectonic slip, glacial rebound and erosional processes, and DTS to capture temperature profiles and variations in the subsurface. Thus, DiSTANS (Distributed Strain, Temperature and Acoustic seNsing Suite) will contribute to answering many challenging questions related to the subsurface, and their control on the surface environment. Hence, DiSTANS will be deployed in a range of potentially hazardous environments.

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: £413,374

II.2) Description

II.2.2) Additional CPV code(s)

- 73100000 - Research and experimental development services

II.2.3) Place of performance

NUTS codes

- UKH15 - Norwich and East Norfolk

II.2.4) Description of the procurement

Traditional methods of subsurface monitoring are restricted in either time or space. Spot measurements record continuously but lack spatial resolution. Campaign measurements capture high spatial resolution data at a single point in time. Distributed Sensing (DS) is a brand-new technology for environmental research that does not rely upon individual sensors but utilises optical fibre. DS methods will become increasingly used to analyse systems on a new range of scales - the high spatial resolution allows for microscopic-scale studies; the length of cables enables large-scale investigations.

The University of East Anglia has acquired funding for a system that includes distributed acoustic sensor (DAS), distributed strain sensor (DSS) and distributed temperature sensor (DTS). DAS to record high-frequency ground motion associated with natural sources such as earthquakes and active sources for exploration, DSS to record slower ground deformation from sources such as tectonic slip, glacial rebound and erosional processes, and DTS to capture temperature profiles and variations in the subsurface. Thus, DiSTANS (Distributed Strain, Temperature and Acoustic seNsing Suite) will contribute to answering many challenging questions related to the subsurface, and their control on the surface environment. Hence, DiSTANS will be deployed in a range of potentially hazardous environments.

II.2.5) Award criteria

Quality criterion - Name: Quality / Weighting: 70

Price - Weighting: 30

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.2.1) Previous publication concerning this procedure

Notice number: 2022/S 000-032586

Section V. Award of contract

A contract/lot is awarded: Yes

V.2) Award of contract

V.2.1) Date of conclusion of the contract

20 February 2023

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

Silixa

230 Centennial Park, Centennial Avenue

Elstree

WD6 3SN

Country

United Kingdom

NUTS code

- UKI7 - Outer London – West and North West

Companies House

6207412

The contractor is an SME

Yes

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

Total value of the contract/lot: £413,374

Section VI. Complementary information

VI.4) Procedures for review

VI.4.1) Review body

University of East Anglia

Norwich Research Park, Earlham Road

Norwich

NR4 7TJ

Country

United Kingdom