Tender

Distributed sensor interrogators: Acoustic, Strain and Temperature

UNIVERSITY OF EAST ANGLIA

F02: Contract notice
Notice identifier: 2022/S 000-032586
Procurement identifier (OCID): ocds-h6vhtk-0385fa
Published 17 November 2022, 8:50am

Section I: Contracting authority

I.1) Name and addresses

UNIVERSITY OF EAST ANGLIA

Norwich Research Park,Earlham Road

NORWICH

NR47TJ

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

www.uea.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/universityofeastanglia/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/universityofeastanglia/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

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.1.5) Estimated total value

Value excluding VAT: £377,728

II.1.6) Information about lots

This contract is divided into lots: No

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

Main site or place of performance

University of East Anglia

Norwich Research Park

Earlham Road

Norwich

Norfolk

NR4 7TJ

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

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

Duration in months

24

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

21 December 2022

Local time

12:00pm

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

English

IV.2.6) Minimum time frame during which the tenderer must maintain the tender

Duration in months: 3 (from the date stated for receipt of tender)

IV.2.7) Conditions for opening of tenders

Date

21 December 2022

Local time

12:05pm

Section VI. Complementary information

VI.1) Information about recurrence

This is a recurrent procurement: No

VI.2) Information about electronic workflows

Electronic ordering will be used

Electronic invoicing will be accepted

Electronic payment will be used

VI.3) Additional information

Please note this procurement will be conducted via InTend, our e-tendering portal. You will need to register with InTend free of charge if you wish to access the tender documents. To register, please got to https://in-tendhost.co.uk/universityofeastanglia/aspx/Home and follow the instructions on the system.

VI.4) Procedures for review

VI.4.1) Review body

University of East Anglia

Earlham Road, Norwich Research Park

Norwich

NR4 7TJ

Country

United Kingdom

VI.4.3) Review procedure

Precise information on deadline(s) for review procedures

The University will incorporate a minimum of 10 calendar days standstill period at the point the information on the award of contract is communicated to tenderers. If an appeal

regarding the award of contract has not been successfully resolved, then the Public Contracts Regulations 2015 provide for aggrieved parties who have been harmed or are at risk of harm by breach of the rules to take action in the High Court. Any such action must be brought promptly and within the limitation period described in the Public Contracts Regulations 2015.