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Tender

## **ALIGN Laser CubeSat UKSA NSIP Phase 3 - Lot 1 - CubeSat Parts**

Northumbria University

F02: Contract notice

Notice identifier: 2023/S 000-032611

Procurement identifier (OCID): ocds-h6vhtk-03cd72

Published 3 November 2023, 2:05pm

### **Section I: Contracting authority**

#### **I.1) Name and addresses**

Northumbria University

Sutherland Building, College Street, Newcastle upon Tyne

Newcastle upon Tyne

NE1 8ST

#### **Contact**

Alex Lyubych

#### **Email**

[alex.lyubych@northumbria.ac.uk](mailto:alex.lyubych@northumbria.ac.uk)

#### **Telephone**

+44 7936036553

#### **Country**

United Kingdom

**Region code**

UKC - North East (England)

**Internet address(es)**

Main address

<https://www.northumbria.ac.uk>

**I.3) Communication**

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

<https://www.delta-esourcing.com/tenders/UK-UK-Newcastle-upon-Tyne:-Satellites./EBJQ4FXPX4>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<https://www.delta-esourcing.com/tenders/UK-title/EBJQ4FXPX4>

Tenders or requests to participate must be submitted to the above-mentioned address

**I.4) Type of the contracting authority**

Body governed by public law

**I.5) Main activity**

Education

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## **Section II: Object**

### **II.1) Scope of the procurement**

#### **II.1.1) Title**

ALIGN Laser CubeSat UKSA NSIP Phase 3 - Lot 1 - CubeSat Parts

Reference number

T23/0048

#### **II.1.2) Main CPV code**

- 34712200 - Satellites
  - CB13 - Solar powered

#### **II.1.3) Type of contract**

Supplies

#### **II.1.4) Short description**

The University is completing the build of three 6U CubeSats as part of a technology demonstration mission funded by the UK Space Agency. This mission will see the launch of two 6U CubeSats into a sun-synchronous Low Earth Orbit (expected 450 km altitude) in 2026/7. The third 6U CubeSat is our reference model. The payload being developed for assembly integration and testing within the 6U CubeSat bus is a 2U laser communications terminal. The mission goal will be to demonstrate inter-satellite laser optical communications across a range of link lengths up to 1000 km and at least 1 Gbps data transfer rates between the 6U CubeSats. There will be a requirement for a number of ground-passes for frequent data downlink of the experimental results log files and the mission is anticipated to last for 1 year, including a deorbit final stage.

#### **II.1.5) Estimated total value**

Value excluding VAT: £108,000

#### **II.1.6) Information about lots**

This contract is divided into lots: Yes

Tenders may be submitted for all lots

Maximum number of lots that may be awarded to one tenderer: 2

The contracting authority reserves the right to award contracts combining the following lots or groups of lots:

Lot 1 - CubeSat Parts and Lot 2 - Satellite components

## **II.2) Description**

### **II.2.1) Title**

CubeSat Parts

Lot No

One

### **II.2.2) Additional CPV code(s)**

- 35631200 - Observation satellites
- 35631300 - Navigation satellites
- 60510000 - Satellite launch services
- 32530000 - Satellite-related communications equipment
- 32531000 - Satellite communications equipment
- 32533000 - Satellite earth stations
- 32534000 - Satellite platforms
- 34712200 - Satellites
- 35631100 - Communication satellites

### **II.2.3) Place of performance**

NUTS codes

- UKC - North East (England)

Main site or place of performance

NORTH EAST (ENGLAND)

### **II.2.4) Description of the procurement**

We are completing the build of three 6U CubeSats as part of a technology demonstration mission funded by the UK Space Agency. This mission will see the launch of two 6U CubeSats into a sun-synchronous Low Earth Orbit (expected 450 km altitude) in 2026/7. The third 6U CubeSat is our reference model. The payload being developed for assembly integration and testing within the 6U CubeSat bus is a 2U laser communications terminal. The mission goal will be to demonstrate inter-satellite laser optical communications across a range of link lengths up to 1000 km and at least 1 Gbps data transfer rates between the 6U CubeSats. There will be a requirement for a number of ground-passes for frequent data downlink of the experimental results log files and the mission is anticipated to last for 1 year, including a deorbit final stage.

### **II.2.5) Award criteria**

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

### **II.2.6) Estimated value**

Value excluding VAT: £108,000

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

Duration in months

12

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

### **II.2.13) Information about European Union Funds**

The procurement is related to a project and/or programme financed by European Union funds: No

## **II.2) Description**

### **II.2.1) Title**

Satellite components

Lot No

2

### **II.2.2) Additional CPV code(s)**

- 32324310 - Satellite antennas
- 32530000 - Satellite-related communications equipment
- 32531000 - Satellite communications equipment
- 32533000 - Satellite earth stations
- 32534000 - Satellite platforms
- 34712200 - Satellites
- 35631100 - Communication satellites
- 35631200 - Observation satellites
- 35631300 - Navigation satellites
- 60510000 - Satellite launch services

### **II.2.3) Place of performance**

NUTS codes

- UKC - North East (England)

Main site or place of performance

NORTH EAST (ENGLAND)

### **II.2.4) Description of the procurement**

We are completing the build of three 6U CubeSats as part of a technology demonstration mission funded by the UK Space Agency. This mission will see the launch of two 6U CubeSats into a sun-synchronous Low Earth Orbit (expected 450 km altitude) in 2026/7. The third 6U CubeSat is our reference model. The payload being developed for assembly integration and testing within the 6U CubeSat bus is a 2U laser communications terminal. The mission goal will be to demonstrate inter-satellite laser optical communications across

a range of link lengths up to 1000 km and at least 1 Gbps data transfer rates between the 6U CubeSats. There will be a requirement for a number of ground-passes for frequent data downlink of the experimental results log files and the mission is anticipated to last for 1 year, including a deorbit final stage. As well as modelling analysis services.

#### **II.2.5) Award criteria**

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

#### **II.2.6) Estimated value**

Value excluding VAT: £260,000

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

Duration in months

12

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

#### **II.2.13) Information about European Union Funds**

The procurement is related to a project and/or programme financed by European Union funds: No

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## **Section III. Legal, economic, financial and technical information**

### **III.1) Conditions for participation**

#### **III.1.1) Suitability to pursue the professional activity, including requirements relating to enrolment on professional or trade registers**

List and brief description of conditions

There are requirements for the parts to be space-qualified.

#### **III.1.2) Economic and financial standing**

Selection criteria as stated in the procurement documents

#### **III.1.3) Technical and professional ability**

Selection criteria as stated in the procurement documents

### **III.2) Conditions related to the contract**

#### **III.2.2) Contract performance conditions**

Intended for the space environment, temperature resilience, vacuum resistance, radiation durability, and ability to function in zero gravity.

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## **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: [2023/S 000-014168](#)

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

Date

5 December 2023

Local time

1:00pm

**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

5 December 2023

Local time

1:00pm

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**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**

The contracting authority considers that this contract may be suitable for economic operators that are small or medium enterprises (SMEs). However, any selection of tenderers will be based solely on the criteria set out for the procurement.

For more information about this opportunity, please visit the Delta eSourcing portal at:

<https://www.delta-esourcing.com/tenders/UK-UK-Newcastle-upon-Tyne:-Satellites./EBJQ4FXPX4>

To respond to this opportunity, please click here:

<https://www.delta-esourcing.com/respond/EBJQ4FXPX4>

GO Reference: GO-2023113-PRO-24340232

## **VI.4) Procedures for review**

### **VI.4.1) Review body**

Northumbria University at Newcastle

Sutherland Building, Northumberland Road

Newcastle upon Tyne

NE1 8ST

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