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Planning

## Hall Effect System

University of Northumbria at Newcastle

F01: Prior information notice

Prior information only

Notice identifier: 2024/S 000-017550

Procurement identifier (OCID): ocids-h6vhtk-046ddd

Published 6 June 2024, 10:05am

### Section I: Contracting authority

#### I.1) Name and addresses

University of Northumbria at Newcastle

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**

Additional information can be obtained from 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**

Hall Effect System

Reference number

T23/0125

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

- 38340000 - Instruments for measuring quantities

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

Supplies

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

The Faculty of Engineering and Environment at Northumbria University is undergoing expansion and enhancement of its engineering materials facilities. Following recent grant successes, this includes investment in both space and equipment. In particular, we are looking to improve our materials characterisation facilities. We are looking to acquire a Hall effect system to measure resistivity/conductivity, carrier mobility and carrier concentration and type in semiconductor thin films. The system must be well suited to measure transparent conductive oxides as well as solar absorbers such as  $\text{Sb}_2(\text{S},\text{Se})_3$ ,  $\text{Cu}_2\text{ZnSn}(\text{S},\text{Se})_4$  and related materials typically deposited on glass substrates. The system should be compact and benchtop and capable of reliably measuring thin film samples with low mobility ( $10^{-1} \text{ cm}^2/\text{V.s}$  or below) without compromising the measurement quality or samples with high mobility. The system should include full software and a PC to measure and extract the desired film properties with a user-friendly interface. UK training and support is paramount.

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

Value excluding VAT: £70,000

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

This contract is divided into lots: No

### **II.2) Description**

### **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**

The procurement involves the acquisition of a compact, benchtop Hall effect system designed for precise measurement of resistivity/conductivity, carrier mobility, and concentration in semiconductor thin films. The system should be capable of reliably measuring samples with low mobility, supporting research and academic applications. Only one unit is required for this procurement.

### **II.2.14) Additional information**

While the contracting authority has decided to advertise voluntarily, does not represent a commitment to follow one of the official procurement procedures.

### **II.3) Estimated date of publication of contract notice**

26 June 2024

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## **Section IV. Procedure**

### **IV.1) Description**

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

The procurement is covered by the Government Procurement Agreement: Yes

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## **Section VI. Complementary information**

### **VI.3) Additional information**

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

<https://www.delta-esourcing.com/tenders/UK-UK-Newcastle-upon-Tyne:-Instruments-for-measuring-quantities./8DDYP6Q5N6>

To respond to this opportunity, please click here:

<https://www.delta-esourcing.com/respond/8DDYP6Q5N6>

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