

This is a published notice on the Find a Tender service: <https://www.find-tender.service.gov.uk/Notice/005090-2021>

Tender

## High Pressure Shock Tube

UNIVERSITY OF SHEFFIELD

F02: Contract notice

Notice identifier: 2021/S 000-005090

Procurement identifier (OCID): ocds-h6vhtk-029b53

Published 12 March 2021, 4:14pm

The closing date and time has been changed to:

**15 April 2021, 12:00pm**

See the [change notice](#).

### Section I: Contracting authority

#### I.1) Name and addresses

UNIVERSITY OF SHEFFIELD

Western Bank

SHEFFIELD

S102TN

#### Contact

David Middle

#### Email

[dave.middle@sheffield.ac.uk](mailto:dave.middle@sheffield.ac.uk)

**Telephone**

+44 1142221560

**Country**

United Kingdom

**NUTS code**

UKE32 - Sheffield

**Internet address(es)**

Main address

<https://www.sheffield.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/Sheffield.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/Sheffield.aspx/Home>

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

---

## **Section II: Object**

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

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

High Pressure Shock Tube

Reference number

2611/DM

#### **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**

The University of Sheffield (UoS) with funding from European Regional Development Fund (ERDF) and the Department for Business Energy and Industrial Strategy (BEIS) is establishing a shock tube laboratory as part of its brand-new Translational Energy Research Centre (TERC). The intention of the shock tube is to study high-pressure chemical kinetics of combustion reactions using various diagnostic equipment.

The shock tube will be used to study high-pressure and high-temperature chemical kinetics of hydrogen and methane combustion, before moving onto syngas and larger hydrocarbons. The tube will focus on high-pressure combustion applications, such as the Allam-Fetvedt cycle, diesel engine and scram-jet combustion

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

Value excluding VAT: £150,000

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

This contract is divided into lots: No

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

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

- 45350000 - Mechanical installations
- 73100000 - Research and experimental development services

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

NUTS codes

- UKE32 - Sheffield

Main site or place of performance

The University of Sheffield, at a new research facility known as the Translational Energy Research Centre, which is located close to Junction 33 of the M1 motorway.

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

The shock tube will be used to study high-pressure and high-temperature chemical kinetics of hydrogen and methane combustion, before moving onto syngas and larger hydrocarbons. The shock tube will focus on high-pressure combustion applications, such as the Allam-Fetvedt cycle, diesel engine and scram-jet combustion.

The UoS Shock Tube based at TERC will be used to study high-pressure combustion and produce data which will subsequently be used to create a chemical kinetic mechanism for modelling high-pressure combustion.

### **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: £150,000

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

Start date

1 August 2021

End date

1 October 2021

This contract is subject to renewal

No

**II.2.10) Information about variants**

Variants will be accepted: Yes

**II.2.11) Information about options**

Options: Yes

Description of options

As described within the tender documents

---

**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

As per the tender documents

**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

---

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

Originally published as:

Date

12 April 2021

Local time

12:00pm

Changed to:

Date

15 April 2021

Local time

12:00pm

See the [change notice](#).

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

English

### **IV.2.7) Conditions for opening of tenders**

Date

12 April 2021

Local time

1:00pm

Place

The University of Sheffield, Department of Finance

---

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

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

The University of Sheffield

Sheffield

S10 2TN

Country

United Kingdom