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Contract

## **3631/JN - Spin Test Facility**

UNIVERSITY OF SHEFFIELD

F03: Contract award notice

Notice identifier: 2023/S 000-024965

Procurement identifier (OCID): ocds-h6vhtk-03a312

Published 24 August 2023, 2:26pm

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

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

UNIVERSITY OF SHEFFIELD

THE UNIVERSITY OF SHEFFIELD, WESTERN BANK

SHEFFIELD

S102TN

#### **Contact**

James Noble

#### **Email**

[james.noble@sheffield.ac.uk](mailto:james.noble@sheffield.ac.uk)

#### **Country**

United Kingdom

**Region code**

UKE32 - Sheffield

**Companies House**

RC000667

**Internet address(es)**

Main address

<https://in-tendhost.co.uk/sheffield>

**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**

3631/JN - Spin Test Facility

Reference number

3631/JN

**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's Department of Electronic and Electrical Engineering and AMRC with funding from Innovate UK are looking to acquire a spin-test facility (also colloquially

known as 'spin-rig') in support of research in high speed rotating components and assemblies. This capability will form part of a UK-wide network of facilities and capabilities which are available to UK industry and academia to further R&D and supply chain development in power electronics, machines and drives. Its principal role will be to facilitate mechanical testing, model validation and certification of high performance electrical machine rotors, including an ability to determine burst speeds and assess the nature of the burst. Although burst capability and overspeed testing is an essential requirement, much of the demand is driven by the need to characterise rotors and shaft assemblies in terms of radial growth at normal operating conditions and to characterise low-cycle fatigue. The system will consist of an evacuated chambers into which the test-piece is located and connected to a drive mechanism that enables its mechanical response to be quantified over a prescribed speed range as set out in the requirements section below. The facility will also be used in support of wider rotatives research across the University Sheffield, in many cases in collaboration with industry and/or academic partners, where likely use cases include interalia tool assemblies, compressor and turbine parts. The facility will be an R&D facility, in many cases testing one-of-a-kind test pieces and not a production facility and hence there is little or no premium in rapid / automated set-up of repeated tests. The equipment will be located in an existing industrial unit within the Advanced Manufacturing Research Centre (AMRC) which has a 400mm thick cast concrete floor, extensive services, large loading doors and a10 tonne overhead crane.

## **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: £1,039,900

## **II.2) Description**

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

- 38400000 - Instruments for checking physical characteristics
- 38500000 - Checking and testing apparatus
- 38900000 - Miscellaneous evaluation or testing instruments

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

NUTS codes

- UKE32 - Sheffield

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

The University of Sheffield's Department of Electronic and Electrical Engineering and AMRC with funding from Innovate UK are looking to acquire a spin-test facility (also colloquially

known as 'spin-rig') in support of research in high speed rotating components and assemblies. This capability will form part of a UK-wide network of facilities and capabilities which are available to UK industry and academia to further R&D and supply chain development in power electronics, machines and drives. Its principal role will be to facilitate mechanical testing, model validation and certification of high performance electrical machine rotors, including an ability to determine burst speeds and assess the nature of the burst. Although burst capability and overspeed testing is an essential requirement, much of the demand is driven by the need to characterise rotors and shaft assemblies in terms of radial growth at normal operating conditions and to characterise low-cycle fatigue. The system will consist of an evacuated chambers into which the test-piece is located and connected to a drive mechanism that enables its mechanical response to be quantified over a prescribed speed range as set out in the requirements section below. The facility will also be used in support of wider rotatives research across the University Sheffield, in many cases in collaboration with industry and/or academic partners, where likely use cases include interalia tool assemblies, compressor and turbine parts. The facility will be an R&D facility, in many cases testing one-of-a-kind test pieces and not a production facility and hence there is little or no premium in rapid / automated set-up of repeated tests. The equipment will be located in an existing industrial unit within the Advanced Manufacturing Research Centre (AMRC) which has a 400mm thick cast concrete floor, extensive services, large loading doors and a10 tonne overheard crane.

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

Quality criterion - Name: Quality / Weighting: 80

Price - Weighting: 20

### **II.2.11) Information about options**

Options: No

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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 000-003545](#)

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## **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**

27 July 2023

#### **V.2.2) Information about tenders**

Number of tenders received: 2

Number of tenders received from SMEs: 1

Number of tenders received by electronic means: 2

The contract has been awarded to a group of economic operators: No

#### **V.2.3) Name and address of the contractor**

Schenck RoTec GmbH

Landwehrstrasse 55

Darmstadt

64293

Country

Germany

NUTS code

- DE71 - Darmstadt

Companies House

HRB 1732

The contractor is an SME

No

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

Initial estimated total value of the contract/lot: £1,058,000

Total value of the contract/lot: £1,039,900

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## **Section VI. Complementary information**

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

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

The University of Sheffield

Sheffield

S10 2TN

Email

[james.noble@sheffield.ac.uk](mailto:james.noble@sheffield.ac.uk)

Country

United Kingdom