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Tender

# 838 - e-Powertrain Test Cell Equipment Supply and Installation

Aston University

F02: Contract notice
Notice identifier: 2023/S 000-028967
Procurement identifier (OCID): ocds-h6vhtk-04071c
Published 2 October 2023, 1:19pm

## Section I: Contracting authority

### I.1) Name and addresses

Aston University

Aston Triangle

Birmingham

B4 7ET

**Contact**

Mr Jacob Rankine

**Email**

j.rankine@aston.ac.uk

**Telephone**

+44 1212043000

**Country**

United Kingdom

**Region code**

UKG31 - Birmingham

**Internet address(es)**

Main address

http://www.aston.ac.uk

Buyer's address

http://www.aston.ac.uk

## I.3) Communication

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

https://procontract.due-north.com/Advert/Index?advertId=dfdb082f-1a61-ee11-8124-005056b64545

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

https://procontract.due-north.com/Advert/Index?advertId=dfdb082f-1a61-ee11-8124-005056b64545

## 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**

838 - e-Powertrain Test Cell Equipment Supply and Installation

Reference number

DN692078

**II.1.2) Main CPV code**

- 34144900 - Electric vehicles

**II.1.3) Type of contract**

Supplies

**II.1.4) Short description**

The College of Engineering and Physical Sciences (EPS) at Aston University is seeking to acquire an e-motor test system for durability and functionality testing of electric motors for electric vehicles (EVs) following standard and no-standard test cycles.

This system will form part of their integral research programme looking at Sustainable Energy and Transport. To meet the requirements, the e-motor test system must meet the following criteria:

- Be able to test electric motors for EVs with rated power up to about 175 kW, rated torque 420 N.m, and rated speed 16,0000 rpm, with inertia equal or lower than 0.3 kg.m2.

- Have the AC dynamometer mounted on a metal base plate for which air springs must be supplied to be adapted to the existing one or a full metal base plate with air springs provided.

- Include Turnkey control and data acquisition system conveniently integrated in table/rack/cabinet structure with dynamometer controller, computer, monitor, emergency stop button, power analyser and weather station plus user-friendly software able to reproduce standard/custom test schedules.

- Include dynamometer shaft cover for operator safety.

- Include calibration arms and weights.

- Include a battery emulator to simulate operation of various EV battery types.

- Include specimen adaptation and conditioning unit.

The full project specific requirements and equipment specification can be found within the project question set on Aston University's e-tendering portal ProContract under Section 11 – Project Specific Requirements.

**II.1.5) Estimated total value**

Value excluding VAT: £500,000

**II.1.6) Information about lots**

This contract is divided into lots: No

## II.2) Description

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

- 31110000 - Electric motors
- 38000000 - Laboratory, optical and precision equipments (excl. glasses)

**II.2.3) Place of performance**

NUTS codes

- UKG31 - Birmingham

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

The College of Engineering and Physical Sciences (EPS) at Aston University is seeking to acquire an e-motor test system for durability and functionality testing of electric motors for electric vehicles (EVs) following standard and no-standard test cycles.

This system will form part of their integral research programme looking at Sustainable Energy and Transport. To meet the requirements, the e-motor test system must meet the following criteria:

- Be able to test electric motors for EVs with rated power up to about 175 kW, rated torque 420 N.m, and rated speed 16,0000 rpm, with inertia equal or lower than 0.3 kg.m2.

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- Include Turnkey control and data acquisition system conveniently integrated in

table/rack/cabinet structure with dynamometer controller, computer, monitor, emergency stop button, power analyser and weather station plus user-friendly software able to reproduce standard/custom test schedules.

- Include dynamometer shaft cover for operator safety.

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- Include a battery emulator to simulate operation of various EV battery types.

- Include specimen adaptation and conditioning unit.

The full project specific requirements and equipment specification can be found within the project question set on Aston University's e-tendering portal ProContract under Section 11 – Project Specific Requirements.

**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

36

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

# 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

2 November 2023

Local time

12:00pm

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

English

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

Date

2 November 2023

Local time

12:05pm

# Section VI. Complementary information

## VI.1) Information about recurrence

This is a recurrent procurement: No

## VI.4) Procedures for review

### VI.4.1) Review body

Aston University

Birmingham

Country

United Kingdom