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Contract

## **ExCALIBUR Fusion Modelling System FM-WP2 Plasma multiphysics model: Spectral element procurement (Project NEPTUNE)**

United Kingdom Atomic Energy Authority

F03: Contract award notice

Notice identifier: 2022/S 000-033187

Procurement identifier (OCID): ocds-h6vhtk-0337aa

Published 23 November 2022, 11:22am

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

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

United Kingdom Atomic Energy Authority

Culham Science Centre

Abingdon

OX14 3DB

#### **Contact**

Abigail Woods

#### **Email**

[abigail.woods@ukaea.uk](mailto:abigail.woods@ukaea.uk)

#### **Country**

United Kingdom

**Region code**

UKJ14 - Oxfordshire

**National registration number**

N/A

**Internet address(es)**

Main address

<http://www.gov.uk/government/organisations/uk-atomic-energy-authority>

Buyer's address

<https://uk.eu-supply.com/ctm/Company/CompanyInformation/Index/72814>

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

Body governed by public law

**I.5) Main activity**

Other activity

Fusion Research

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## **Section II: Object**

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

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

ExCALIBUR Fusion Modelling System FM-WP2 Plasma multiphysics model: Spectral element procurement (Project NEPTUNE)

Reference number

T/AW085/22

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

- 48000000 - Software package and information systems

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

Supplies

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

Radical changes to supercomputer architectures are on the horizon. The current simulation codes, that much of UK science relies upon, are designed for current supercomputer architectures. These codes will, at best, not be able to fully exploit the power that the supercomputers of the mid-2020s will deliver; at worst, they will run slower on those machines than they do now. Future computers will be more energy efficient and so the longer we rely upon the current approach, the more expensive the solution will be. Therefore, it is essential that we invest now in redesigning those simulation codes so that they perform well on the future generations of supercomputers.

#### **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: £377,963.32

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

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

- 72262000 - Software development services
- 73300000 - Design and execution of research and development
- 73120000 - Experimental development services

**II.2.3) Place of performance**

NUTS codes

- UKJ14 - Oxfordshire

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

Radical changes to supercomputer architectures are on the horizon. The current simulation codes, that much of UK science relies upon, are designed for current supercomputer architectures. These codes will, at best, not be able to fully exploit the power that the supercomputers of the mid-2020s will deliver; at worst, they will run slower on those machines than they do now. Future computers will be more energy efficient and so the longer we rely upon the current approach, the more expensive the solution will be. Therefore, it is essential that we invest now in redesigning those simulation codes so that they perform well on the future generations of supercomputers.

**II.2.5) Award criteria**

Quality criterion - Name: Quality / Weighting: 80

Price - Weighting: 20

**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 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: [2022/S 000-012556](#)

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## **Section V. Award of contract**

### **Contract No**

1

### **Title**

ExCALIBUR Fusion Modelling System FM-WP2 Plasma multiphysics model: Spectral element procurement (Project NEPTUNE)

A contract/lot is awarded: Yes

### **V.2) Award of contract**

#### **V.2.1) Date of conclusion of the contract**

28 October 2022

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

Number of tenders received: 1

Number of tenders received by electronic means: 1

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

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

King's College

150 Stamford Street

London

SE1 9NH

Country

United Kingdom

NUTS code

- UK - United Kingdom

National registration number

N/A

The contractor is an SME

No

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

Lowest offer: £377,963.32 / Highest offer: £377,963.32 taken into consideration

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## **Section VI. Complementary information**

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

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

UK Atomic Energy Authority

Culham Science Centre

Abingdon

OX14 3DB

Country

United Kingdom

Internet address

<https://www.gov.uk/government/organisations/uk-atomic-energy-authority>

#### **VI.4.2) Body responsible for mediation procedures**

UK Atomic Energy Authority

Culham Science Centre

Abingdon

OX14 3DB

Country

United Kingdom

Internet address

<https://www.gov.uk/government/organisations/uk-atomic-energy-authority>

#### **VI.4.3) Review procedure**

Precise information on deadline(s) for review procedures

#### VI.4.2) Body responsible for mediation procedures

#### VI.4.3) Review procedure

Precise information on deadline(s) for review procedures:

The authority will incorporate a minimum 10 calendar day standstill period at the point information on the award of the contract is communicated to tenderers.

This period allows unsuccessful tenderers to seek further debriefing from the authority before a contract is entered into applicants have 2 working days from the notification of the award decision to request. Additional debriefing and that information have to be provided within a minimum of 3 working days before the expiry of the standstill period. Such additional information should be sought from the contact named in this notice.

If an appeal regarding the award of a contract has not been successfully resolved, the Public Contracts Regulations 2015 (SI 2015 No. 102) provide for aggrieved parties who have been harmed or are at risk of harm by a breach of the rules to take action in the High Court (England, Wales and Northern Ireland).

Any such action must be brought promptly.

(generally within 3 months).

#### **VI.4.4) Service from which information about the review procedure may be obtained**

UK Atomic Energy Authority

Culham Science Centre

Abingdon

OX14 3DB

Country

United Kingdom

Internet address

<https://www.gov.uk/government/organisations/uk-atomic-energy-authority>



