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Planning

## **UKAEA RACE - RAICo Request for Expressions of Interest - Data Exploitation**

United Kingdom Atomic Energy Authority

F01: Prior information notice

Prior information only

Notice identifier: 2022/S 000-021788

Procurement identifier (OCID): ocds-h6vhtk-0359ff

Published 8 August 2022, 5:12pm

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

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

United Kingdom Atomic Energy Authority

Culham Science Centre

Abingdon

OX14 3DB

#### **Contact**

Phil Perkins

#### **Email**

[phil.perkins@ukaea.uk](mailto:phil.perkins@ukaea.uk)

#### **Telephone**

+44 1235467147

**Country**

United Kingdom

**NUTS 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.3) Communication**

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

<https://uk.eu-supply.com/ctm/Supplier/Documents/Folder/45975>

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**

Other activity

Fusion Research

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## **Section II: Object**

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

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

UKAEA RACE - RAICo Request for Expressions of Interest - Data Exploitation

Reference number

T/PJP144/22

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

- 72314000 - Data collection and collation services

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

Services

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

UKAEA RACE - RAICo are investigating the creation of an enhanced suite of tools for merging and utilising data collected by robot/sensor from hazardous nuclear decommissioning site locations. Improving the reliability, repeatability, and breadth of supporting data to enable faster, safer, and cheaper decision making for decommissioning and maintenance applications.

It seeks to do this by engaging with industry and academia to combine recent advances from other fields, to develop a data exploitation framework focused on a unified data format suitable for nuclear decommissioning.

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

Value excluding VAT: £1,500,000

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

This contract is divided into lots: Yes

The contracting authority reserves the right to award contracts combining the following lots or groups of lots:

The procurement may be split into 4 lots as described in the linked Request for Expressions of Interest.

Project ID Task Title

20 Nuclear Building Information Modelling (BIM)

21 Decommissioning Data Viewer

22 Automated Inspection

23 Remote Health Physics

## **II.2) Description**

### **II.2.1) Title**

Nuclear Building Information Modelling (BIM)

Lot No

1

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

- 72300000 - Data services

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

NUTS codes

- UK - United Kingdom

Main site or place of performance

Whitehaven, Cumbria

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

Development and demonstration of a nuclear BIM suitable for supporting nuclear fusion and fission decommissioning.

This shall include importing existing CAD, connecting related textual records, maintenance logs, and capture data from inspection robots and sensors.

The nuclear BIM shall include the ability to include radiological and contamination data. Beyond this, it shall also include the ability to include uncertain or incomplete data.

We will be seeking expertise in all digital related technology skill sets and capabilities to

support the development of a nuclear BIM.

## **II.2) Description**

### **II.2.1) Title**

Decommissioning Data Viewer

Lot No

2

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

- 72300000 - Data services

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

NUTS codes

- UK - United Kingdom

Main site or place of performance

Whitehaven, Cumbria

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

This project will develop an intuitive interface to the Nuclear BIM, allowing multiple types of users to inspect a plant, and easily interact with the data that they require (e.g. overlaying radiological data). This shall include VR representations for the 3D data.

We will be seeking expertise in all digital related technology skill sets and capabilities.

## **II.2) Description**

### **II.2.1) Title**

Automated Inspection

Lot No

3

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

- 72300000 - Data services

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

NUTS codes

- UK - United Kingdom

Main site or place of performance

Whitehaven, Cumbria

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

This project shall focus on routinely and autonomously exploring and inspecting large complex regions enabling this in nuclear decommissioning and ensuring that the data is returned in a standard format suitable for the nuclear BIM.

We will be seeking expertise in all digital / inspection related technology skill sets and capabilities.

## **II.2) Description**

### **II.2.1) Title**

Remote Health Physics

Lot No

4

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

- 90743100 - Toxic substances monitoring services

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

NUTS codes

- UK - United Kingdom

Main site or place of performance

Whitehaven, Cumbria

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

For most decommissioning operations, multiple radiological protection workers are required to be on standby in uncomfortable PPE for the entire period of an operation. This

can cause delays and puts additional people at risk. With the advent of readily available mobile robotics, it should be possible to deploy remote platforms to complete some of the monitoring tasks remotely.

This project focuses on the development and in-field testing of remote health physics techniques.

We will be seeking expertise in all digital technology / health physics related skill sets and capabilities.

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

30 January 2023

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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