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Contract

## **Radio Frequency Cyber Penetration Test Facility for Future Wireless Connectivity**

University of Bristol

F03: Contract award notice

Notice identifier: 2022/S 000-018347

Procurement identifier (OCID): ocds-h6vhtk-032eee

Published 5 July 2022, 2:45pm

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

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

University of Bristol

4th Floor, Augustine's Courtyard, Orchard Lane

Bristol

BS1 5DS

#### **Email**

[naomi.adams@bristol.ac.uk](mailto:naomi.adams@bristol.ac.uk)

#### **Telephone**

+44 01179289000

#### **Country**

United Kingdom

#### **NUTS code**

UK - United Kingdom

**Internet address(es)**

Main address

[www.bristol.ac.uk](http://www.bristol.ac.uk)

**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**

Radio Frequency Cyber Penetration Test Facility for Future Wireless Connectivity

#### **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**

Equipment to establish and maintain a 4G LTE or 5G NR connection with either a smart phone or data modem independent of the UK cellular network is sought. A cabled or galvanic RF connection from such equipment is required to establish and maintain connection with a user device, or via an over the air connection within a fully screened enclosure. Although not the intended use here, this equipment is often referred as a handset tester or basestation and network emulator.

#### **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: £213,058.99

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

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

NUTS codes

- UK - United Kingdom

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

Wireless connectivity is an essential enabler for the networks that underpin modern life, providing communications for people, vehicles, machines, infrastructure, and the wide variety of devices that make up the Internet of Things (IoT). When deployed within critical

infrastructure, disruption via cyber-attack could have catastrophic consequences, however, little attention has been given to such intrusions via the wireless interface, or the Open RF Attack Surface. Here, vulnerabilities of the wireless physical layer and lower layers of the protocol stack could be exploited. Hence the need for resilient, agile, and sustainable wireless technology for future communications systems. This is the focus of the SWAN Prosperity Partnership.

So far, the project has built a comprehensive penetration testbed using LoRaWAN as a candidate technology. The next step will be to extend the penetration testing capability of technologies to include commercial 4G/5G devices. This assessment needs to be conducted in isolation from public networks, avoid radio frequency (RF) emissions, and immerse such devices within a fully emulated network.

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

Quality criterion - Name: Technical / Weighting: 60

Cost criterion - Name: Commercial / Weighting: 40

### **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 000-010321](#)

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

### **Contract No**

Lab-2204-102-PC\_2206

### **Title**

Radio Frequency Cyber Penetration Test Facility for Future Wireless Connectivity

A contract/lot is awarded: Yes

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

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

16 June 2022

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

Number of tenders received: 2

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

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

Rohde & Schwarz UK Ltd

Hampshire

Country

United Kingdom

NUTS code

- UK - United Kingdom

The contractor is an SME

Yes

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

Total value of the contract/lot: £213,058.99

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## **Section VI. Complementary information**

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

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

University of Bristol

Bristol

Country

United Kingdom