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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

Telephone

+44 01179289000

Country

United Kingdom

NUTS code

UK - United Kingdom

Internet address(es)

Main address

www.bristol.ac.uk

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

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

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

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

Section VI. Complementary information

VI.4) Procedures for review

VI.4.1) Review body

University of Bristol

Bristol

Country

United Kingdom