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Planning

Functional Ultrasound (fUS)

University Of Edinburgh

F01: Prior information notice

Prior information only

Notice identifier: 2025/S 000-074363

Procurement identifier (OCID): ocds-h6vhtk-05e265

Published 17 November 2025, 12:17pm

Section I: Contracting authority

I.1) Name and addresses

University Of Edinburgh

Charles Stewart House, 9-16 Chambers Street

Edinburgh

EH1 1HT

Email

mritchi7@ed.ac.uk

Telephone

+44 1316502759

Country

United Kingdom

NUTS code

UKM75 - Edinburgh, City of

Internet address(es)

Main address

<http://www.ed.ac.uk>

Buyer's address

https://www.publiccontractsscotland.gov.uk/search/Search_AuthProfile.aspx?ID=AA00107

I.3) Communication

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

Education

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Functional Ultrasound (fUS)

II.1.2) Main CPV code

- 33112300 - Ultrasound scanners

II.1.3) Type of contract

Supplies

II.1.4) Short description

This PIN refers to the purchase of a functional ultrasound (fUS) scanner (not to be confused with FUS which is focused ultrasound – which is used for ultrasound therapy applications such as ablation)

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.3) Place of performance

NUTS codes

- UKM75 - Edinburgh, City of

Main site or place of performance

The Queen's Medical Research Institute

II.2.4) Description of the procurement

This PIN refers to the purchase of a functional ultrasound (fUS) scanner (not to be confused with FUS which is focussed ultrasound – which is used for ultrasound therapy applications such as ablation).

Essential Scanner Features

Non-invasive brain imaging: Imaging of brain blood flow dynamics in the mouse brain without the need to create an acoustic window

High spatial resolution: Ability to achieve real-time spatial resolution better than 100 microns sufficient for visualising the mouse brain

High temporal resolution: Ability to achieve temporal resolution better than 100 ms to enable dynamic imaging of brain blood flow

Atlas registration: In-built Allen brain atlas so that the acquired brain images can be registered

Functional connectivity analysis: In-built interactive software to build connectivity matrices, seed maps, and perform region-based analyses.

Ultrasound localisation microscopy: Capability for super-resolution imaging and visualisation of the microvascular tree in the brain or other soft tissue organs, including

associated analysis software.

3D imaging support: Ability to perform volumetric imaging and reconstruction of brain regions.

Blood flow velocity analysis: Software to support calculation of the velocity of blood moving within the micro- vasculature of the brain or other soft tissue organs

Portability and motorised scanning: Portable/moveable system with motorised scanning table and associated hardware to support ultrasound scanning of fixed-head or fixed-organ animals.

Offline analysis: Full capability for offline data analysis, including export to standard analysis platforms (e.g. MATLAB, Python).

Awake and anaesthetised imaging: System adaptable for both anaesthetised and awake mouse imaging, including head-fixation and behavioural setups.

Physiological synchronisation: Compatibility with physiological monitoring systems (e.g. ECG, respiration) and synchronisation with external equipment such as stimulation, electrophysiology, or behavioural tracking systems.

Upgrade and expandability: Modular design to support future hardware or software upgrades (e.g. dual-probe imaging, extended field-of-view).

Training and technical support: Comprehensive technical support, including on-site installation, user training, software updates, and a warranty/maintenance plan.

II.3) Estimated date of publication of contract notice

8 December 2025

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

Section VI. Complementary information

VI.3) Additional information

NOTE: To register your interest in this notice and obtain any additional information please visit the Public Contracts Scotland Web Site at

https://www.publiccontractsscotland.gov.uk/Search/Search_Switch.aspx?ID=816030.

(SC Ref:816030)