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Planning

Cloud Infrastructure

UK BIOBANK LIMITED

UK2: Preliminary market engagement notice - Procurement Act 2023 - [view information about notice types](#)

Notice identifier: 2025/S 000-016585

Procurement identifier (OCID): ocds-h6vhtk-05067e

Published 23 April 2025, 3:22pm

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Scope

Reference

UKBB0021

Description

UK Biobank ("UKB") currently hosts a cloud-based health Research Analysis Platform which makes research projects and data accessible to researchers ("RAP"). The current RAP was procured by UKB in 2020 and was developed by DNAexus, in collaboration with, and cloud infrastructure provided by, Amazon Web Services.

UKB intends to initiate a procurement exercise for the development of a new RAP ("RAP2.0") and associated services to take account of advances in technology over the past 5 years and its future requirements. The RAP2.0 is anticipated to be the default way that most researchers will access and analyse UKB's biomedical database and it is anticipated to comprise one or more software platforms or data analysis services that

work together to meet the diverse functional needs to the research community.

UKB currently intends to undertake separate procurements in relation to (i) the RAP2.0, (ii) cloud infrastructure, and (iii) automated airlock software to control extraction of data held by UKB for research purposes, whilst ensuring the ongoing security and confidentiality of the data. UKB has established an informatics working group consisting of senior experts who will provide guidance to help develop the requirements for the technology listed at (i) - (iii) above.

It is currently envisaged that the first procurement to be undertaken will relate to the cloud infrastructure (in late 2025/early 2026), followed by the procurement of the RAP2.0 in 2026. The procurement of the airlock software may be conducted in parallel to, or follow sequentially, (i) and/or (ii).

This Preliminary Market Engagement Notice relates to the proposed procurement of cloud infrastructure as the enabling foundation of the platform ecosystem for RAP2.0. Separate Preliminary Market Engagement Notices are being published for RAP2.0 and airlock software.

Contract dates (estimated)

- 1 April 2026 to 30 March 2032
- 5 years, 11 months, 30 days

Main procurement category

Services

CPV classifications

- 30211300 - Computer platforms
- 72317000 - Data storage services
- 72500000 - Computer-related services

Contract locations

- UKC - North East (England)
 - UKD - North West (England)
 - UKE - Yorkshire and the Humber
 - UKF - East Midlands (England)
 - UKG - West Midlands (England)
 - UKH - East of England
 - UKI - London
 - UKJ - South East (England)
 - UKK - South West (England)
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Engagement

Engagement deadline

31 August 2025

Engagement process description

UKB currently envisages that, in addition to the work of the informatics working group, it may engage with suppliers prior to launch of the cloud infrastructure procurement. Further details of any proposed engagement would be set out in a further preliminary market engagement notice including the activities to be undertaken (which may take place in stages and may take the form of one-to-one meetings with suppliers and/or requests to complete written questionnaires).

Interested organisations should register their interest in this potential opportunity via the following link: tenders@ukbiobank.ac.uk

Contracting authority

UK BIOBANK LIMITED

- Companies House: 04978912
- Public Procurement Organisation Number: PXGY-4832-TWCN

Units 1 & 2 Spectrum Way,

Stockport

SK3 0SA

United Kingdom

Email: tenders@ukbiobank.ac.uk

Region: UKD35 - Greater Manchester South East

Organisation type: Public authority - sub-central government