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Tender

DLSITT1072 - Supply of a Fizeau Interferometer for Diamond Light Source

DIAMOND LIGHT SOURCE LIMITED

UK4: Tender notice - Procurement Act 2023 - [view information about notice types](#)

Notice identifier: 2025/S 000-049834

Procurement identifier (OCID): ocids-h6vhtk-058a87

Published 19 August 2025, 1:39pm

Scope

Reference

DLSITT1072

Description

Located on the Harwell Science and Innovation Campus in Oxfordshire, Diamond Light Source (DLS) is a leading-edge facility for science, engineering and innovation. Diamond allows researchers from academia and industry to investigate the structure and behaviour of the world around us at the atomic and molecular level.

To continue delivering the world-changing science that Diamond enables, the facility is being upgraded to Diamond-II, a co-ordinated programme of development that combines a major machine upgrade with new instruments and complementary improvements to optics, detectors, sample environment and delivery capabilities, and computing, as well as integrated and correlative methods. This will be transformative in speed and spatial resolution and will offer users streamlined access to enhanced instruments for life and physical sciences.

The scope of this contract is to Supply, deliver, install and commission a Fizeau laser interferometer, subject to the performance specification. The specification details the requirements for a Fizeau interferometer to accurately measure the surface quality of X-ray optics for Diamond's beamlines in the Optics Metrology Lab (OML).

The Optics & Metrology group at Diamond requires a Fizeau interferometer with a ~ 150 mm diameter exit laser beam to measure the slope and figure error of synchrotron X-ray mirrors and crystals. Such optics are manufactured from single-crystal silicon, often with a metallic coating to enhance X-ray reflectivity.

Advances in optical production technology, including ion beam figuring and elastic emission machining, mean that it is now possible to produce X-ray optics with figure errors less than 1 nm rms. To accurately characterise such optics, a measurement tool is required with an accuracy and repeatability

Total value (estimated)

- £270,000 excluding VAT
- £324,000 including VAT

Above the relevant threshold

Contract dates (estimated)

- 14 October 2025 to 14 March 2026
- 5 months, 1 day

Main procurement category

Goods

CPV classifications

- 38636000 - Specialist optical instruments

Contract locations

- UKJ14 - Oxfordshire

Participation

Particular suitability

Small and medium-sized enterprises (SME)

Submission

Tender submission deadline

18 September 2025, 12:00pm

Submission address and any special instructions

Please email tender submission to:

[https://diamondtenders@diamond.ac.uk](mailto:diamondtenders@diamond.ac.uk)

and send a hard copy to:

Diamond Procurement

Diamond House

Diamod Light Source Ltd

Harwell Science and Innovation Campus

Didcot

Oxon

OX11 0DE

United Kingdom

Tenders may be submitted electronically

Yes

Languages that may be used for submission

English

Award decision date (estimated)

2 October 2025

Award criteria

Name	Type	Weighting
Price	Price	40%
Technical Quality	Quality	25%
Experience and Capacity	Quality	25%
Commercial	Quality	5%
Delivery	Quality	5%

Other information

Applicable trade agreements

- Government Procurement Agreement (GPA)

Conflicts assessment prepared/revised

Yes

Procedure

Procedure type

Open procedure

Documents

Technical specifications to be met

<https://Tenders.diamond.ac.uk>

Visit our web page:

<https://tenders.diamond.ac.uk>

Here Suppliers are required to complete a one-off simple registration form. You are then able to login to register an interest against the tender and download the Tender Documents.

Contracting authority

DIAMOND LIGHT SOURCE LIMITED

- Companies House: 04375679
- Public Procurement Organisation Number: PNGG-3778-PWBM

Diamond House

Didcot

OX11 0DE

United Kingdom

Email: procurement@diamond.ac.uk

Region: UKJ14 - Oxfordshire

Organisation type: Public authority - central government