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Planning

## **Fourier Transform Infrared (FTIR) Spectroscopy System**

UNITED KINGDOM NATIONAL NUCLEAR LABORATORY LIMITED

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

Notice identifier: 2025/S 000-072433

Procurement identifier (OCID): ocds-h6vhtk-05ddc2

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### **Scope**

### **Reference**

NNLC714

### **Description**

The design and manufacture of a Fourier Transform Infrared (FTIR) Spectroscopy System.

High level functional requirements as per below:

1. The FTIR equipment shall be capable of measuring the corrosion thickness on samples up to 10  $\mu\text{m}$ .
2. The FTIR rig shall be operated remotely.
3. The FTIR equipment shall be capable of being operated in conjunction with an XY table, allowing the complete area of the sample to pass over the FTIR sampling area.

4. The probe head of the FTIR equipment must protrude from the end of the spiral wall plug to which it is fitted in order to allow the sample to be presented up to the probe with a clearance of 0.4mm +/- 0.1mm.

5. The probe head of the FTIR equipment shall be protected from damage that samples being pushed against it could cause.

6. The FTIR equipment shall include a desktop computer and software to support the analysis and display the results from the FTIR equipment.

7. The FTIR equipment shall be designed to withstand the in-cell environment.

- Radiation In-cave: 30Gy/hour at 30cm Out-of-cave: 10µGy/hour at 30cm
- Temperature In-cave: 5°C to 45°C Out-of-cave: 5°C to 35°C• All equipment shall operate in relative humidity of 5% to 95% non-condensing.
- All equipment shall operate at atmospheric pressure.

### **Contract dates (estimated)**

- 26 January 2026 to 5 October 2026
- 8 months, 11 days

### **Main procurement category**

Goods

### **CPV classifications**

- 42000000 - Industrial machinery

### **Contract locations**

- UK - United Kingdom

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## Engagement

### Engagement deadline

28 November 2025

### Engagement process description

Please contact: [Izak.Cartain-Farish@uknnl.com](mailto:Izak.Cartain-Farish@uknnl.com) referencing NNLC714 for further information.

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## Contracting authority

### **UNITED KINGDOM NATIONAL NUCLEAR LABORATORY LIMITED**

- Companies House: 03857752
- Public Procurement Organisation Number: PVXT-8784-YGNV

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Region: UKD61 - Warrington

Organisation type: Public authority - sub-central government