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Planning

Fusionics Components Development

UK Atomic Energy Authority

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

Notice identifier: 2025/S 000-035713

Procurement identifier (OCID): ocids-h6vhtk-0554f3

Published 27 June 2025, 11:50am

Scope

Reference

P172

Description

UKAEA wishes to engage with potential suppliers, for the provision of real-time software and FPGA engineers in order to develop new capabilities to enable fusion power plant control systems. Plasma control systems need advanced real-time control and instrumentation systems. There is a gap in the supply chain in this area. Our vision is to stimulate the creation of an ecosystem of interoperable components with standard interfaces, protocols and engineering methods. We call this “fusionics”, analogous to “avionics” capability as found in aerospace. Building on a successful project as part of year one of the Fusion Futures Programme, we seek a supplier to develop components, skills and capability relevant to this area. After the engagement exercise, UKAEA intend to issue an Invitation to Tender through the EU Supply and Find a Tender (CDP) portals The P172 Realtime Fusionics Components Webinar is scheduled to take place on 8th July 2025 at 1pm. Topic: P172 Realtime Fusionics Components Join from PC, Mac, iPad, or Android: <https://ukaea.zoom.us/j/84991171360> <https://ukaea.zoom.us/j/84991171360>

Total value (estimated)

- £715,000 excluding VAT
- £858,000 including VAT

Above the relevant threshold

Contract dates (estimated)

- 1 September 2025 to 1 January 2026
- Possible extension to 1 January 2027
- 1 year, 4 months, 1 day

Main procurement category

Services

CPV classifications

- 48627000 - Real-time operating system software package
- 31712110 - Electronic integrated circuits and microassemblies
- 72212670 - Real time operating system software development services
- 73000000 - Research and development services and related consultancy services
- 92700000 - Cybercafé services

Contract locations

- UKJ14 - Oxfordshire

Engagement

Engagement deadline

2 August 2025

Engagement process description

The procurement documents are available for unrestricted and full direct access, free of charge, at: <https://uk.eu-supply.com/ctm/Supplier/PublicTenders> Please search using the unique tender ID: 100774

Participation

Particular suitability

Small and medium-sized enterprises (SME)

Submission

Publication date of tender notice (estimated)

2 August 2025

Contracting authority

UK Atomic Energy Authority

- Public Procurement Organisation Number: PLJV-1169-JTDD

Culham Science Centre

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United Kingdom

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Region: UKJ14 - Oxfordshire

Organisation type: Public authority - central government