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Planning

Industry Simulation Software for Fusion

UK Atomic Energy Authority

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

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Procurement identifier (OCID): ocds-h6vhtk-04ef22

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Scope

Reference

T/GW037/25

Description

The aims of this project align with the goals of the United Kingdom Atomic Energy Authority in engaging industry to accelerate knowledge transfer and developments to solve the challenges necessary for enabling delivery of commercial fusion power plants. Specifically, the aims of this project are: - to clearly and formally communicate the main simulation challenges for Fusion to industry. - to allow software vendors to demonstrate and validate their software for use in fusion contexts. - to rigorously identify where there are capability gaps or developments needed for Fusion . - to build ongoing collaborative engagement with

industry regarding development efforts to fill these capability gaps. The overall outcome aims to have improved engagement with software industry, clearly defined case studies for which to evaluate emerging software developments, improved depth and breadth in capability for fusion-relevant simulation, and confidence in utilisation of this capability in current and future fusion programmes. At tender stage, the UKAEA will define the specification of the case studies, including identification and execution of any small-scale experiments required to provide reference datasets. The case study specification will include a clear definition of the objectives, all necessary data to build and run the simulation models, such as geometry, boundary conditions, etc. and measurable outputs upon which the solution can be evaluated. The project intends to engage and work with all interested parties to demonstrate the performance of their software for the identified cases and summarise results to UKAEA. This element is market engagement only to refine the best way of approaching the exercise and get a clearer understanding of the suppliers working within this discipline. Refer to Appendix 1 - Background for further information.

Total value (estimated)

- £320,000 excluding VAT
- £384,000 including VAT

Above the relevant threshold

Contract dates (estimated)

- 28 July 2025 to 28 July 2026
- 1 year, 1 day

Main procurement category

Services

CPV classifications

- 72212100 - Industry specific software development services
- 72212900 - Miscellaneous software development services and computer systems
- 72212983 - Development software development services
- 72260000 - Software-related services
- 72262000 - Software development services

Contract locations

- UKJ14 - Oxfordshire

Engagement

Engagement deadline

4 April 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: 97403 Please complete and return Appendix 2 via the EU Supply messaging function by the deadline.

Participation

Particular suitability

- Small and medium-sized enterprises (SME)
- Voluntary, community and social enterprises (VCSE)

Submission

Publication date of tender notice (estimated)

6 May 2025

Contracting authority

UK Atomic Energy Authority

- Public Procurement Organisation Number: PLJV-1169-JTDD

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Region: UKJ14 - Oxfordshire

Organisation type: Public authority - central government