

Germany-Bonn: Research and development services and related consultancy services

OJ S 71/2023 11/04/2023

Contract notice

Services

Legal Basis:

Directive 2014/24/EU

Section I: Contracting authority

I.1. Name and addresses

Official name: European Centre for Medium-Range Weather Forecasts (ECMWF)

Postal address: Robert-Schuman-Platz 3

Town: Bonn, Kreisfreie Stadt

NUTS code: DEA22 Bonn, Kreisfreie Stadt

Postal code: 53175

Country: Germany

Contact person: Procurement at ECMWF

E-mail: procurement@ecmwf.int**Internet address(es):**Main address: <https://www.ecmwf.int/>Address of the buyer profile: <http://procurement.ecmwf.int/>**I.3. Communication**The procurement documents are available for unrestricted and full direct access, free of charge, at: <http://procurement.ecmwf.int/>

Additional information can be obtained from the abovementioned address

Tenders or requests to participate must be submitted electronically via: <http://procurement.ecmwf.int/>Electronic communication requires the use of tools and devices that are not generally available. Unrestricted and full direct access to these tools and devices is possible, free of charge, at: <http://procurement.ecmwf.int/>**I.4. Type of the contracting authority**

European institution/agency or international organisation

I.5. Main activity

Other activity: Meteorological and Environmental Services

Section II: Object

II.1. Scope of the procurement**II.1.1. Title**

DE_371 Machine Learning for Earth system Digital Twins

Reference number: DE_371

II.1.2. Main CPV code

73000000 Research and development services and related consultancy services

II.1.3.

Type of contract

Services

II.1.4. Short description

ECMWF, as one of the Entrusted Entities for the Destination Earth (DestinE) initiative, invites Tenders for the purpose of demonstrating that Machine Learning/ Deep Learning (ML/DL) based methodologies can augment DestinE datasets and products from the Weather-induced and geophysical extremes Digital Twins (DT).

II.1.5. Estimated total value

Value excluding VAT: 800 000,00 EUR

II.1.6. Information about lots

This contract is divided into lots: no

II.2. Description

II.2.3. Place of performance

NUTS code: DEA22 Bonn, Kreisfreie Stadt

Main site or place of performance: On contractor's premises.

II.2.4. Description of the procurement

Under this Tender, the DT concept shall be enhanced with data-driven models tethered to high resolution simulations to provide synthetic model data. Specifically, machine learning models will generate physically-realistic synthetic ensemble members and provide physically-consistent interpolation in time.

The successful Tenderer will produce new high-impact ML/DL methods and software solutions that can work close to the data generation location of the DTs of DestinE and eventually become integrated in the DTE. The output shall be a well documented software package, covering both training and inference data, trained ML/DL models for achieving the above tasks, and an assessment of product quality with respect to the chosen reference output. Other activities are further detailed in Volume II of the ITT, including further developments the Tenderer may propose.

ECMWF intends to award a single contract for a maximum period of 24 months, which is expected to commence in September or October 2023.

Tenderers should note that ECMWF will also consider the Total Cost of Ownership beyond the contract period and ultimately make an award decision based on the best interests of the Centre taking value for money into account.

II.2.5. Award criteria

Criteria below

Quality criterion - Name: Tenderer's Financial & Legal organisation / Weighting: 5%

Quality criterion - Name: Track record / Weighting: 5%

Quality criterion - Name: Quality of Resources Deployed / Weighting: 10%

Quality criterion - Name: Technical Solution Proposed / Weighting: 50%

Quality criterion - Name: Management & Implementation / Weighting: 15%

Price - Weighting: 15

II.2.6. Estimated value

Value excluding VAT: 800 000,00 EUR

II.2.7. Duration of the contract, framework agreement or dynamic purchasing system

Duration in months: 24

This contract is subject to renewal: no

II.2.10. Information about variants

Variants will be accepted: no

II.2.11. Information about options

Options: no

II.2.13. Information about European Union funds

The procurement is related to a project and/or programme financed by European Union funds:
yes

Identification of the project: Destination Earth Programme - <https://digital-strategy.ec.europa.eu/en/policies/destination-earth>

II.2.14. Additional information

Section III: Legal, economic, financial and technical information

III.1. Conditions for participation

III.1.2. Economic and financial standing

Selection criteria as stated in the procurement documents

III.1.3. Technical and professional ability

Selection criteria as stated in the procurement documents

III.2. Conditions related to the contract

III.2.3. Information about staff responsible for the performance of the contract

Obligation to indicate the names and professional qualifications of the staff assigned to performing the contract

Section IV: Procedure

IV.1. Description

IV.1.1. Type of procedure

Open procedure

IV.1.3. Information about a framework agreement or a dynamic purchasing system

IV.1.8. Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: no

IV.2. Administrative information

IV.2.2. Time limit for receipt of tenders or requests to participate

Date: 09/06/2023 Local time: 16:00

IV.2.3. Estimated date of dispatch of invitations to tender or to participate to selected candidates

IV.2.4. Languages in which tenders or requests to participate may be submitted

English

IV.2.6.

Minimum time frame during which the tenderer must maintain the tender

Duration in months: 9 (from the date stated for receipt of tender)

IV.2.7. Conditions for opening of tenders

Date: 09/06/2023 Local time: 16:00

Place:

ECMWF's eProcurement Portal

Information about authorised persons and opening procedure: Not applicable

Section VI: Complementary information

VI.1. Information about recurrence

This is a recurrent procurement: no

VI.3. Additional information

The procurement for the contract will be conducted in accordance with ECMWF's procedures as set out in Invitation to Tender documents, which will be available on ECMWF's eProcurement Portal (<http://procurement.ecmwf.int/>) and no other procedures will apply. In submitting this notice ECMWF does not waive the privileges and immunities granted to it by virtue of its status as an intergovernmental organisation or submit itself to any jurisdiction. Tenders must be submitted using ECMWF's eProcurement Portal. Hard copy (paper) submissions will not be accepted.

Due to the need to include performance and compliance obligations in the contract, ECMWF will contract only with a single legal person or entity which is competent to undertake and commit to these obligations. ECMWF recognises that some bids will involve a number of organisations which may wish to work together to deliver the contract requirements. In such cases, these organisations must identify a lead contractor who will sign the contract with ECMWF and who will be responsible for putting in place legal arrangements to ensure that it can guarantee that all other organisations will also meet the contract obligations. ECMWF will not enter into multiple contracts with individual members of consortia or groups of service providers.

Eligibility: Refer to Section 3.2 of Volume I of the ITT documents.

VI.4. Procedures for review

VI.4.1. Review body

Official name: European Centre for Medium-Range Weather Forecasts

Postal address: Shinfield Park

Town: Reading

Postal code: RG2 9AX

Country: United Kingdom

Internet address: <https://www.ecmwf.int/en/about/suppliers>

VI.4.3. Review procedure

Precise information on deadline(s) for review procedures:

See instructions on ECMWF's Supplier web page: <https://www.ecmwf.int/en/about/suppliers>

VI.4.4. Service from which information about the review procedure may be obtained

Official name: European Centre for Medium-Range Weather Forecasts

Postal address: Shinfield Park

Town: Reading

Postal code: RG2 9AX

Country: United Kingdom

Internet address: <https://www.ecmwf.int/en/about/suppliers>

VI.5. Date of dispatch of this notice

06/04/2023