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Tender

Forecasting Tipping Points: Uniting climate measurements and models to create an early warning system

ADVANCED RESEARCH AND INVENTION AGENCY

F02: Contract notice

Notice identifier: 2024/S 000-028222

Procurement identifier (OCID): ocds-h6vhtk-0497e7

Published 4 September 2024, 10:17am

Section I: Contracting authority

I.1) Name and addresses

ADVANCED RESEARCH AND INVENTION AGENCY

96 EUSTON ROAD,

LONDON

NW12DB

Email

clarifications@aria.org.uk

Country

United Kingdom

Region code

UKI31 - Camden and City of London

Justification for not providing organisation identifier

Not on any register

Internet address(es)

Main address

www.aria.org.uk

I.3) Communication

The procurement documents are available for unrestricted and full direct access, free of charge, at

https://www.aria.org.uk/forecasting-tipping-points

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted to the above-mentioned address

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

General public services

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Forecasting Tipping Points: Uniting climate measurements and models to create an early warning system

II.1.2) Main CPV code

• 73110000 - Research services

II.1.3) Type of contract

Services

II.1.4) Short description

For more info see here ARIA is an R&D funding agency built to unlock scientific and technological breakthroughs that benefit everyone. We empower scientists and engineers to pursue research at the edge of what is technologically or scientifically possible. We will reach across disciplines, sectors and institutions to shape, fund and manage projects across the R&D ecosystem, from startups to universities, to break down silos and discover new pathways. We are looking for proposals for our Forecasting Tipping Points programme. For more info see https://www.aria.org.uk/forecasting-tipping-points

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.3) Place of performance

NUTS codes

• UK - United Kingdom

II.2.4) Description of the procurement

Why this programme

Major parts of the Earth system are at risk of crossing climate tipping points within the next century, with severe consequences for biodiversity, food security, agriculture, and humanity. Despite the potential impact, we're poorly equipped to characterise the long-term trends of our climate systems, or predict the future risk of runaway, self-perpetuating change. Our best observational datasets are at a nascent stage, while our best climate models are computationally expensive and do not capture all the physical processes we need.

What we're shooting for

Combining expertise in observation and modelling with innovative sensing systems, we'll look to develop a proof-of-concept for an early warning system for climate tipping points that is affordable, sustainable and justified. We'll achieve this through a targeted deployment of low-cost sensing systems, to be tested in a multi-year field campaign, whose data can be integrated with advances in physics- and Al-driven models to push the frontiers of knowledge for climate tipping points.

By unifying these approaches, we're aiming to confidently predict when a system will tip, what the consequences be, and how quickly that change will unfold. Our goal: to create an early warning system for tipping points that equips the world with the information we need to build resilience and accelerate proactive climate adaptation.

II.2.5) Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

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

Duration in months

60

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: Yes

Description of options

Additional funding, scope and duration could be added to any contracts awarded.

Section III. Legal, economic, financial and technical information

III.1) Conditions for participation

III.1.1) Suitability to pursue the professional activity, including requirements relating to enrolment on professional or trade registers

List and brief description of conditions

Detailed timelines can be found in the programme call information on ARIA's website here. The application process for Technical Areas 1, 2 and 3 consists of two stages:

Submission of a concept paper - At this stage and based on your concept paper, you will either be encouraged/ discouraged to submit a full proposal. If you receive feedback indicating that you are not encouraged to submit a full proposal you can still choose to submit a full proposal. You should note that this preliminary assessment/encouragement provides no guarantee of any full proposal being selected for award of funding.

The deadline for submission of concept papers is 23 September 2024 (12:00 BST).

Submission of a full proposal - the deadline for submission of full proposals is 11 November 2024 (12:00 GMT).

The total funding value is the estimated budget available. We expect to fund multiple applicants.

Funding is anticipated to be award via both contracts and grants. For information on how we fund https://www.aria.org.uk/faqs-funding/

Section IV. Procedure

IV.1) Description

IV.1.1) Type of procedure

Competitive procedure with negotiation

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

11 November 2024

Local time

12:00pm

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

English

Section VI. Complementary information

VI.1) Information about recurrence

This is a recurrent procurement: No

VI.4) Procedures for review

VI.4.1) Review body

Not Applicable, see the ARIA Act 2022

London

Country

United Kingdom