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# Services for modeling the effects of nuclear weapons on agricultural systems

ID: W912HZ24T5579 • Type: Special Notice

Description	Overview	Contacts	Docs	Q&A	Lifecycle
Awards	IDVs	Contracts	Protests	Incumbents	Bidders 8
Similar 6	Additional				

## Description

The US Army Corps of Engineers, Engineer Research and Development Center (ERDC) intends to issue an award on a sole source basis (IAW FAR 13.106-1(b)(1)) with Terra Analytics, Inc., 966 10th Street, Boulder, Colorado 80302-7474, for the research and development of active research programs that focus on modeling impacts on the environment and the impacts of nuclear weapons on farm systems that optimizes AgriShock, a code suite for modeling the effects of nuclear weapons on agricultural systems.

The objective of this project is to build upon previous research efforts to develop and optimize AgriShock, a code suite for modeling the effects of nuclear weapons on agricultural systems. The minimum needs of this contract are that the contractor provide all personnel, equipment, facilities, supervision, and other items necessary to conduct studies that demonstrate modeling of nuclear warfare on a global scale that would lead to destruction of the agriculture systems such as farms. The contractor must be able to execute the following: 1) utilize AgriShock, code suite, to increase the geographic coverage to include former Eastern Block countries and implement software code on DoD TS/SCI level ERDC supercomputing resources; 2) update their AgriShock software code to regions beyond eastern Europe and western Russia, with regions chosen to support the ERDC mission to support the Defense Threat Reduction Agency (DTRA) goals of modeling effects of nuclear events; 3) utilize the AgriShock software to incorporate aerial mapping; 4) extend the AgriShock software code by developing a beta radioisotope uptake model that reflects the manner in which a non-destructive nuclear event; and 5) ensure that the updated Agrishock software can be implemented on existing and/or new secure Linux-based ERDC HPC computing environments.

The intended procurement will be classified under North American Industry Classification System (NAICS) 541511 Custom Computer Programming Services with a Small Business Size Standard of \$34 million. This notice of intent is not a request for competitive proposals and no solicitation document exists for this requirement. However, parties interested in responding to this notice shall submit technical data, including price, sufficient to determine capability in providing the same or similar product. All capability statements received by the closing date of the publication of this synopsis will be considered by the Government. A determination by the Government not to compete based on responses to this notice is solely within the discretion of the Government. Information received will normally be considered solely for the purpose of determining whether to conduct a competitive procurement.

Capability statements shall be submitted only by e-mail as a Microsoft Office Word, Microsoft Office Excel, or Adobe PDF attachment to Shinita.M.Jordan@usace.army.mil and Sonia.J.Boyd@usace.army.mil. Statements are due by 12:00pm Central Time, Thursday, 12 September 2024. No phone calls will be accepted.

[Show Less](#)

## Overview

List [Text](#)

### Agency

 Engineer Research and Development Center (ERDC) [DoD - USA - USACE] 

### Response Deadline

Sept. 12, 2024, 1:00 p.m. EDT Past Due

### Posted

Sept. 10, 2024, 1:30 p.m. EDT

### Set Aside

Small Business (SBA)

### NAICS

541511 - Custom Computer Programming Services 

### PSC

DB01 - IT And Telecom - High Performance Computing (Hpc) Support Services (Labor) 

### Place of Performance

Boulder, CO 80302 United States

### Source

SAM

**Current SBA Size Standard**

\$34 Million

**Pricing**

Likely Fixed Price

**Est. Level of Competition**

Sole Source

**Est. Value Range** Experimental

<\$250,000 (solicitation indicates Simplified Acquisition Procedures, which in most cases, applies to contracts expected to be less than \$250K in value)

**Signs of Shaping**

67% of obligations for similar contracts within the Department of the Army were awarded full & open.

## Primary Contact

**Name**

Shinita Jordan [Profile](#) ↗

**Email**

[shinita.m.jordan@usace.army.mil](mailto:shinita.m.jordan@usace.army.mil)

**Phone**

None

## Secondary Contact

**Name**

SONIA BOYD [Profile](#) ↗

**Email**

[sonia.j.boyd@usace.army.mil](mailto:sonia.j.boyd@usace.army.mil)

**Phone**

None

## Question & Answer

[Launch AI Q&A Assistant](#)

## Incumbent or Similar Awards

No similar awards ending soon found, explore in Award Search >>

## Potential Bidders and Partners

Awardees that have won contracts similar to Special Notice W912HZ24T5579

[Explore in Partner Finder >>](#)

[Gatehouse Usa](#)

2023 Obligations: \$0

[Ukpeagvik Inupiat Corporation](#)

2023 Obligations: \$79.2 million

[Breakpoint Labs](#)

2023 Obligations: \$5.4 million

[Decilog](#)

2023 Obligations: \$17.6 million

[Gradkell Systems](#)

2023 Obligations: \$24.7 million

[Ideal Innovations](#)

2023 Obligations: \$27.5 million

[Tripoint Solutions](#)

2023 Obligations: \$30.2 million

Tiber Creek Consulting

2023 Obligations: \$35.7 million

## Similar Active Opportunities

Open contract opportunities similar to Special Notice W912HZ24T5579

National Guard Bureau JI Combined Support Services

Agency:  National Guard Readiness Center [DoD - USA - ARNG] 

Deadline: Dec. 18, 2024, 4:00 p.m. EST

Type: Sources Sought

Set Aside: 8(a) (8A)

NAICS: 541611 - Administrative Management and General Management Consulting Services 

Rope Access Bridge Inspections

Agency:  USACE St. Paul District (MVP) [DoD - USA - USACE] 

Deadline: Oct. 11, 2024, 12:00 p.m. EDT

Type: Synopsis Solicitation

Set Aside: Small Business (SBA)

NAICS: 541330 - Engineering Services 

Survey and Mapping A-E IDIQ/SATOC, US Army Corps of Engineers (USACE) Los Angeles District (SPL),

Agency:  USACE Los Angeles District (SPL) [DoD - USA - USACE] 

Deadline: Oct. 25, 2024, 6:00 p.m. EDT

Type: Synopsis Solicitation

Set Aside: Small Business (SBA)

NAICS: 541370 - Surveying and Mapping (except Geophysical) Services 

Administrative staff support to the Georgia Army National Guard Recruiting and Retention Battalion in the areas of interstate transfer coordination, data analysis, MEPS guidance counseling, training, and staff support.

Agency:  Georgia National Guard [DoD - USA - ARNG] 

Deadline: Oct. 15, 2024, 12:00 p.m. EDT

Type: Presolicitation

Set Aside: Service Disabled Veteran Owned Small Business (SDVOSBC)

NAICS: 541990 - All Other Professional, Scientific, and Technical Services 

INCREASING THE RESILIENCE OF USMC RESOURCES USING NATURE BASED SOLUTIONS (NBS)

Agency:  Engineer Research and Development Center (ERDC) [DoD - USA - USACE] 

Deadline: May 25, 2025, 11:00 a.m. EDT

Type: Sources Sought

Set Aside: Small Business (SBA)

NAICS: 541620 - Environmental Consulting Services 

Army Strategic Education Program (ASEP) Course Support

Agency:  MICC Carlisle Barracks [DoD - USA - AMC - MICC] 

Deadline: Oct. 18, 2024, 7:00 a.m. EDT

Type: Synopsis Solicitation

Set Aside: Small Business (SBA)

NAICS: 541611 - Administrative Management and General Management Consulting Services 

## Additional Details

### Source Agency Hierarchy

DEPT OF DEFENSE > DEPT OF THE ARMY > USACE > OTHER DIVISION > W2R2 USA ENGR R AND D  
CTR

### FPDS Organization Code

2100-W912HZ

### Source Organization Code

100221537

### Last Updated

Sept. 10, 2024

### Last Updated By

sonia.j.boyd@usace.army.mil

### Archive Date

Sept. 27, 2024