

PROJECT ANNOUNCEMENT

**US Army Corps of Engineers (USACE)
Engineer Research and Development Center (ERDC)**

**Title: Monitoring Freshwater Fish and Macroinvertebrates in the Florida Everglades to
Establish CEPP Baseline Conditions**

Announcement Type: Initial Announcement

Funding Opportunity Number: W81EWF-24-SOI-0021

Assistance Listing Number: 12.630

Date Issued: 12 April 2024

Key Dates: Phase I announcement will be open to receive statements of interest continuously until 2:00 Central Time (CT), 13 May 2024, at which point all statements of interest must be received.

If invited to Phase II, full proposal applications will be due at 2:00 Central Time (CT), 05 June 2024.

Estimated Award Ceiling: \$130,000.00

Estimated Total Program Funding: \$686,000

Agency Contact: Stacy Thurman, Stacy.D.Thurman@usace.army.mil.

I. Program Description

A. Short Description of Funding Opportunity

ERDC seeks applications for: a project to be funded by the Engineering Research Development Center (ERDC) that establishes baseline information regarding the freshwater fish and macroinvertebrate communities within the Florida Everglades for reference prior to anticipated restoration efforts associated with the Central Everglades Planning Project (CEPP) under the Comprehensive Everglades Restoration Plan (CERP) program.

B. Background

The Water Resources Development Act (WRDA) of 2000 authorized the Comprehensive Everglades Restoration Plan (CERP) as a framework for modifications and operational changes to the Central and Southern Florida Project needed to restore the south Florida ecosystem. Provisions within WRDA 2000 provided for specific authorization for an adaptive assessment and monitoring program. The CEPP is a CERP project expected to provide an additional 370,000 acre-feet of freshwater to the Everglades annually. Freshwater fishes and invertebrates play a critical role at the base of the food chain within Everglades marshes, providing food to iconic apex predators like wading birds and alligators. Changes in water quantity and quality that influence freshwater fish and invertebrate assemblage structure directly influences wading bird ecology and ecosystem integrity of Everglades marshes. Monitoring of fishes and large invertebrates is necessary to track changes in water management associated with restoration projects both within Everglades National Park and upstream within the Water Conservation Areas. Long-term monitoring data are required to support assessment of the changes in water management. This project will conduct field sample collection, process samples, and data analyses and evaluate the long-term data set with regards to natural resource condition assessments.

The CEPP Adaptive Management and Ecological Monitoring Plans identify the freshwater fish and macroinvertebrate communities as essential attributes of the ecosystem that need to be monitored to assess the influence of the CEPP and to confirm additional freshwater is improving the production and availability of aquatic fauna (fish and macroinvertebrates) to support higher trophic levels. This monitoring of aquatic fauna will inform CEPP Adaptive Management actions associated with CEPP performance in conjunction with other CERP projects and non-CERP operations.

C. Program Description/Objective: (brief description of the anticipated work)

The purpose of this research is to leverage a long-term dataset to monitor the status and trends of freshwater fish and macroinvertebrate populations at established sites within Water Conservation Area 3 (WCA3) in order to determine pre-CEPP implementation baseline conditions for aquatic fauna to inform CEPP Adaptive Management and Ecological Monitoring Plans

The project objectives include:

Objective 1: Collect samples to monitor status and trends of large (>8cm) and small (<8cm)

freshwater fish and macroinvertebrate populations at 10-12 established sites in WCA3 up to 5 times intra-annually.

Objective 2: Establish and report the baseline condition of aquatic faunal abundances and biomasses for future use in a Before, After, Control, Impact (BACI) assessment of CEPP project implementation.

Objective 3: Demonstrate progress and present results in the form of quarterly status reports, annual reports, and a final report.

D. Public Benefit

This project will play a critical role in determining the effect of the CEPP on the aquatic fauna community in WCA3 and continue to build upon the knowledge base for understanding the ecology of the freshwater trophic community in the Greater Everglades ecosystem. Data collected will be used to inform the successful implementation of the CEPP and support the CERP in reaching its restoration goals and objectives. Understanding aquatic faunal dynamics within WCA3 is critical to assess and the effects of hydrologic changes associated with CEPP implementation, ecosystem restoration, and climate change which have potential impacts on the economy of South Florida, including tourism, recreational opportunities, and water management.

E. Authorization: 10 USC 4001

F. Legal Requirements

Each Cooperative Agreement awarded under this announcement will be governed by 2 CFR 200, “Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards”, 2 CFR 1100 Subchapter D—Administrative Requirements Terms and Conditions for Cost-Type Grants and Cooperative Agreements to Nonprofit and Governmental Entities and the DoD research general terms and conditions located at <https://www.nre.navy.mil/work-with-us/manage-your-award/manage-grant-award/grants-terms-conditions>.

G. Program-Specific Requirements

Successful applicants should have expert knowledge of the Everglades ecosystem (in particular Water Conservation Area 3) and a record that demonstrates research experience with freshwater fish and invertebrate taxa native, and invasive, to the Everglades. The candidates should have prior experience with sampling aquatic fauna using a variety of techniques at fixed locations, quantifying temporal changes species abundance and biomass, and relating observed trends in aquatic communities to hydrological variation. The candidates will be required to prepare a Statement of Work and a Work Plan annually regarding the research to be conducted. If applicable, include concise information about property access issues, e.g., easements/rights-of-way or permitting considerations. Submittal of a CA for a project that will take place on Department of Interior (DOI) lands is acknowledgement that the principal investigator (PI) has reviewed and understands the permit requirements for all applicable federal and state agencies

and tribal lands, including, the National Park Service (NPS), the US Fish and Wildlife Service (USFWS), the State of Florida, and federally recognized Tribes. The candidates will also be required to participate in up to one CEPP-organized meeting annually to present results and provide updates on or engage in discussions regarding the sampling. The candidates will also be required to submit three (3) quarterly status reports, one (1) annual report each year, one (1) final report for all years of the agreement to the CEPP project manager. The final report should explicitly establish the pre-CEPP baseline condition of aquatic fauna in WCA3. Any data derived from the project will be delivered to the CEPP project manager with the submission of each annual report in a file containing appropriate metadata.

II. Federal Award Information

The following information applies to awards issued under this announcement:

- This is a one-time initiative
- The Government anticipates 1 Federal awards from this announcement, but reserves the right to award more or less
- The total amount of funding expected to be awarded through this announcement is \$686,000.
- The expected amount of funding for each award is \$130,000 for Year 1, \$133,500 for Year 2, \$137,000 for Year 3, \$140,500 for Year 4, and \$144,200 for Year 5.
- Award(s) from this announcement will be Cooperative Agreement(s)
- The anticipated period of performance is five (5) years. One base period and up to four option periods.
- Applications for renewal or supplementation of existing projects are eligible to compete with applications for new Federal awards
- The government reserves the right to accept only portions of an application and to negotiate with potential awardees
- Government's substantial involvement includes : The USACE will participate in study site selections, design, and work plan development. USACE will participate in field data collection efforts as appropriate, will review quarterly status reports, and will provide input to data interpretation for final reports, as well as review annual and final reports. USACE will incorporate the data and analysis into a system-wide database that assesses and evaluates ecosystem restoration efforts in central and southern Florida. Scientific and technical information generated from the project will be utilized to evaluate project/restoration performance and system responses to be used in the development of assessment reports describing and interpreting those responses.

III. Eligibility Information

A. Eligible Applicants

This opportunity is restricted to non-federal partners of the South Florida - Caribbean

Cooperative Ecosystems Studies Unit (CESU).

Disclosures of current and pending support made in this application may render an applicant ineligible for funding. Prior to award and throughout the period of performance, ERDC may continue to request updated continuing and pending support information, which will be reviewed and may result in discontinuation of funding.

Religious organizations are entitled to compete on equal footing with secular organizations for Federal financial assistance as described in E.O. 13798, "Promoting Free Speech and Religious Liberty."

B. Cost Sharing or Matching

This action will be 100% funded by USACE.

C. Conflict of Interest

a) General Requirement for Disclosure

You and your organization must disclose any potential or actual scientific or nonscientific conflict of interest(s) to us. You must also disclose any potential or actual conflict(s) of interest for any identified sub recipient you include in your application. We may have to ask you more questions if we need more information.

At our discretion, we may ask you for a conflict-of-interest mitigation plan after you submit your application. Your plan is subject to our approval.

b) Scientific Conflict of Interest

Scientific collaborations on research and development projects are generally the result of close collaboration prior to the submission of applications for support. Accordingly, these collaborations should be considered when considering potential conflicts of interest. The potential conflict is mitigated by the disclosure of these collaborations, and the list of current and pending support you provide for senior and key researchers. Therefore, you must include in your list of current and pending support all collaborators, even if they did not formally provide support.

D. Other

a) Licensure or Certification

You must include the Acknowledgment of Support and Disclaimer on all materials created or produced under our awards. This language may be found in the Terms and Conditions included in the award documents.

- E. Certifications, representations, and assurances
1. To apply for grants and other funding opportunities the applicant entity must have an active registration in the System for Award Management (SAM). Applications will not be accepted through Grants.gov or other methods unless the entity is registered in SAM. Registration in SAM now includes the acceptance of Certifications and Assurances. See <https://www.grants.gov/web/grants/grantors/grantor-standard-language.html> for details on how to register in SAM, and Grants.gov
 2. The Federal Assistance Certifications Report is an attestation that the entity will abide by the requirements of the various laws and regulations; therefore, as applicable, you are still required to submit any documentation, including the SF-LLL Disclosure of Lobbying Activities (if award value exceeds \$100,000.00), and, if applicable, informing DoD of unpaid delinquent tax liability or a felony conviction under any Federal law.
 3. Certification Regarding Disclosure of Funding Sources. By checking "I Agree" on the SF 424 (R&R) block 17 you agree to abide by the following statement: "By signing this application, I certify the proposing entity is in compliance with Section 223(a) of the William M. (Mac) Thornberry National Defense Authorization Act for Fiscal Year 2021 which requires that: (a) the PI and other key personnel certify that the current and pending support provided on the proposal is current, accurate and complete; (B) agree to update such disclosure at the request of the agency prior to the award of support and at any subsequent time the agency determines appropriate during the term of the award; and (c) the PI and other key personnel have been made aware of the requirements under Section 223(a)(1) of this Act. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. code, Title 218, Section 1001)."

IV. Application and Submission Information (2 Phase Process)

A. Phase I: Submission of Statement of Interest (SOI)

1. Materials Requested for Statement of Interest/Qualifications:
 - a. Please provide the following via e-mail attachment to: Stacy Thurman, Stacy.D.Thurman@usace.army.mil (Maximum length: 2 pages, single-spaced 12 pt. font).
 - i. Name, Organization and Contact Information
 - ii. Brief Statement of Qualifications (including):
 - Biographical Sketch,
 - Relevant past projects and clients with brief descriptions of these projects,

- Staff, faculty, or students available to work on this project and their areas of expertise,
- Any brief description of capabilities to successfully complete the project you may wish to add (e.g. equipment, laboratory facilities, greenhouse facilities, field facilities, etc.).

Note: A proposed budget is NOT requested at this time.

The administrative point of contact is Stacy Thurman, Stacy.D.Thurman@usace.army.mil

2. ERDC will only accept SOIs submitted on or before 13 May 2024, 2:00 Central Time (CT).

Based on a review of the Statements of Interest received, an investigator or investigators will be invited to move to Phase II which is to prepare a full study proposal. Statements will be evaluated based on the investigator's specific experience and capabilities in areas related to the study requirements.

B. Phase II (if invited): Submission of Full Application Package

1. Address to Request Application Package

The complete funding opportunity announcement, application forms, and instructions are available for download at [Grants.gov](https://www.grants.gov).

The administrative point of contact is Stacy Thurman, Stacy.D.Thurman@usace.army.mil.

2. Content and Form of Application Submission

All mandatory forms and any applicable optional forms must be completed in accordance with the instructions on the forms and the additional instructions below.

- a. SF 424 R&R - Application for Federal Assistance
- b. Full Technical Proposal – Discussion of the nature and scope of the research and technical approach. Additional information on prior work in this area, descriptions of available equipment, data and facilities, and resumes of personnel who will be participating in this effort should also be included. In addition, a data management plan is required to be included. A data management plan is a document that describes which data generated through the course of the proposed research will be shared and preserved, how it will be done, or explains why data sharing or preservation is not possible or scientifically appropriate, or why the costs of sharing or preservation are incommensurate with the value of doing so. See also: DoD Instruction 3200.12. <https://www.esd.whs.mil/Directives/issuances/dodi/>

Data management plans are generally 2 pages in length, and must include the following considerations:

- (1) The types of data, software, and other materials to be produced.
- (2) How the data will be acquired.
- (3) Time and location of data acquisition, if scientifically pertinent.
- (4) How the data will be processed.
- (5) The file formats and the naming conventions that will be used.
- (6) A description of the quality assurance and quality control measures during collection, analysis, and processing.
- (7) A description of dataset origin when existing data resources are used.
- (8) A description of the standards to be used for data and metadata format and content.
- (9) Appropriate timeframe for preservation.
- (10) The plan may consider the balance between the relative value of data preservation and other factors such as the associated cost and administrative burden. The plan will provide a justification for such decisions.
- (11) A statement that the data cannot be made available to the public when there are national security or controlled unclassified information concerns (e.g., “This data cannot be cleared for public release in accordance with the requirements in DoD Directive 5230.09.”)

c. Cost Proposal/Budget – Clear, concise, and accurate cost proposals reflect the offeror’s financial plan for accomplishing the effort contained in the technical proposal. As part of its cost proposal, the offeror shall submit a full budget in sufficient detail so that a reasonableness determination can be made. A recommended template will be included in the invitation to Phase II. The SF 424 Research & Related Budget Form can be used as a guide but is required if the sub-recipient uses it. The cost breakdown should include the following, if applicable:

1. Direct Labor: Direct labor should be detailed by level of effort (i.e. numbers of hours, etc.) of each labor category and the applicable labor rate. The source of labor rates shall be identified and verified. If rates are estimated, please provide the historical based used and clearly identify all escalation applied to derive the proposed rates.
2. Fringe Benefit Rates: The source of fringe benefit rate shall be identified and verified.
3. Travel: Travel costs must include a purpose and breakdown per trip to include destination, number of travelers, and duration.
4. Materials/Equipment: List all material/equipment items by type and kind with associated costs and advise if the costs are based on vendor quotes and/or engineering estimates; provide copies of vendor quotes and/or catalog pricing data.
5. Subrecipient costs: Submit all subrecipient proposals and analyses. Provide the method of selection used to determine the subrecipient.
6. Tuition: Provide details and verification for any tuition amounts proposed.
7. Indirect Costs: Currently the negotiated indirect rate for awards through the CESU is 17.5%.

8. Any other proposed costs: The source should be identified and verified.

d. R&R Senior/Key Person Profile

1. Biographical Sketch

2. Disclosure of Current and Pending Support:

- i. A list of all current projects the individual is working on, in addition to any future support the individual has applied to receive, regardless of the source.
- ii. Title and objectives of the other research projects.
- iii. The percentage per year to be devoted to the other projects.
- iv. The total amount of support the individual is receiving in connection to each of the other research projects or will receive if other applications are awarded.
- v. Name and address of the agencies and/or other parties supporting the other research projects.
- vi. Period of performance for the other research projects.

e. SF-LLL Disclosure of Lobbying Activities (if award value exceeds \$100,000.00)

3. ERDC will only accept full application packages submitted on or before 05 June 2024, 2:00 Central Time (CT).

4. Submission Instructions

Choose **ONE** of the following submission methods:

a. E-mail:

Format all documents to print on Letter (8 ½ x 11”) paper. E-mail proposal to Stacy Thurman, Stacy.D.Thurman@usace.army.mil.

b. Grants.gov: <https://www.grants.gov/>:

Applicants are not required to submit proposals through Grants.gov. However, if applications are submitted via the internet, applicants are responsible for ensuring that their Grants.gov proposal submission is received in its entirety.

All applicants choosing to use Grants.gov to submit proposals must be registered and have an account with Grants.gov. It may take up to three weeks to complete Grants.gov registration. For more information on registration, go to <https://www.grants.gov/web/grants/applicants.html>.

Organizations must have a Unique Entity Identifier (UEI) and active System for Award Management (SAM) registration to apply for Federal financial assistance.

C. Application Withdrawal:

An applicant may withdraw an application at any time before award by written notice via email. Notice of withdrawal shall be sent to the agency point of contact identified in this announcement and are effective upon receipt.

D. Funding Restrictions

Per 2 CFR § 200.216, funds may not be used to procure telecommunications equipment or video surveillance services or equipment produced by

- Huawei Technologies Company,
- ZTE Corporation Hytera Communications Corporation,
- Hangzhou Hikvision Digital Technology Company,
- Dahua Technology Company
- any subsidiary or affiliate of such entities

Funds from an award may not be used to attain fee or profit.

V. Application Review Information

A. Selection Criteria

Applications will be evaluated using the following criteria, listed in descending order of importance:

- Technical merits of the proposed research and development; and
- Potential relationship of the proposed research and development to Department of Defense missions
- Performance of candidates executing current and prior Cooperative Agreements

B. Review and Selection Process:

Each application will be reviewed based on the selection criteria above rather than against other applications submitted under this Announcement.

Based on the Peer or Scientific Review, proposals will be categorized as Selectable or Not Selectable (see definitions below). The selection of the source for award will be based on the Peer or Scientific Review, as well as importance to agency programs and funding availability.

- i. Selectable: Proposals are recommended for acceptance if sufficient funding is available.
- ii. Not Selectable: Even if sufficient funding existed, the proposal should not be funded.

Note: The Government reserves the right to award some, all, or none of proposals. When the Government elects to award only a part of a proposal, the selected part may be categorized as Selectable, though the proposal as a whole may not merit such a categorization.

In addition to the technical/program review, the DoD performs a budget review and a risk review as directed by 2 CFR 200.206, including a review of the Federal Awardee Performance and Integrity Information System (FAPIIS). Applicants may review information in FAPIIS and comment on any information entered into that system. Comments made by applicants will be taken into account in addition to other information in considering applicants' integrity, business ethics, and record of performance.

VI. Federal Award Administration Information

The notification e-mail regarding a selection is not authorization to commit or expend DoD funds. A DoD grants officer is the only person authorized to obligate and approve the use of federal funds. This authorization is in the form of a signed Notice of Award. Applicants whose applications are recommended will be contacted by a DoD grants officer to discuss any additional information required for award. This may include representations and certifications, revised budgets or budget explanations, or other information as applicable to the proposed award. The award start date will be determined at this time.

VII. Reporting Requirements

The terms and conditions of the award will provide the specifics on how to submit the reports and any required sections for those reports.

In accordance with 2 CFR 200.328 (Financial Reporting) and 2 CFR 200.329 (Program Performance)

Report	Requirements/Form	Frequency	Means of Submission
ERDC Progress Report	Progress during the period covered by the corresponding SF 270 via email submission	Upon submission of the SF 270	E-mail
Research Performance Progress Reports (Interim and Final)	OMB Control Number: 0704-0527	Annually	E-mail
Financial Report	SF 425	Monthly or Quarterly	E-mail
Payment Report	SF 270	Monthly or Quarterly	E-mail
Closeout Report	See OAR Article VI of DoD R&D General Terms and Conditions	Once	E-mail

Awardees will need to comply with the reporting requirements in 2 CFR 170: Reporting Subaward and Executive Compensation Information.

The terms and conditions of the award will provide the specifics on how to submit the reports and any required sections for those reports.

VIII. Federal Contacts

Questions should be directed to:

Stacy Thurman

Stacy.D.Thurman@usace.army.mil

Timothy Black

Timothy.D.Black@usace.army.mil

Questions regarding Grants.gov should be directed to: the toll-free number 1-800-518-4726 and email at support@grants.gov.

IX. Other Information

The Federal government is not obligated to make any Federal award as a result of the announcement. Only grants officers can bind the Federal government to the expenditure of fund.

Applicants are advised to monitor Grants.gov for potential amendments to this Notice of Funding Opportunity. You can also elect to be automatically notified by Grants.gov whenever there is a change to the opportunity.

Applications must not include any information that has been identified as classified national security information under authorities established in Executive Order 12958, Classified National Security Information.