

**DEPARTMENT OF THE ARMY
U. S. ARMY CORPS OF ENGINEERS (USACE)
ENGINEER RESEARCH AND DEVELOPMENT CENTER (ERDC)
CONTRACTING OFFICE
2902 Newmark Drive, Champaign, IL 61822**

RESEARCH AND DEVELOPMENT COOPERATIVE AGREEMENT

1. Recipient Name and Address:

University of Oklahoma
c/o Office of Research Administration
1000 ASP AVE RM 105
Norman, OK 73019-4039

Principal Investigator: Cameron Siler
Phone: (405) 227-4123
E-mail: camsiler@ou.edu

Tax ID No.: 731377584
DUNS No.: 848348348
Cage Code: 3G168

- 2. Cooperative Agreement Title:** Advanced Monitoring Population Health and Spatial Ecology of The Texas Horned Lizard on Tinker Air Force Base, Oklahoma

- 3. Federal Award Identification Number (FAIN):** W9132T2120010

This agreement is issued under the terms of the Great Plains Cooperative Ecosystems Studies Unit (GP CESU)

- 4. CFDA Number:** 12.630 – Basic, Applied, and Advanced Research in Science and Engineering

- 5. Recipient Program Manager:** Cameron D. Siler, Ph.D., Associate Professor of Biology, Department of Biology & Associate Curator of Herpetology Sam Noble Museum, University of Oklahoma, Norman, Oklahoma 73072-7029, Phone: (405) 227-4123, Email: camsiler@ou.edu

- 6. Grants Officer:** Andrea Thomas, Phone: (217) 373-6746
Email: Andrea.J.Thomas@usace.army.mil

- 7. Grants Specialist:** Angela Holcomb, Phone: (217) 373-3372
Email: Angela.D.Holcomb@usace.army.mil

- 8. Grants Officer's Representative (GOR):** Patrick Guertin, Phone: (217) 373-5857 Email: Patrick.J.Guertin@usace.army.mil

- 9. Federal Award Project Description:** The research effort to be accomplished is described in the proposed effort in Exhibit 1.

- 10. Period of Performance:** This award is for a base period of performance of twelve months from the date of the award. If any the continuation phases of research detailed in Section 11 below are funded the agreement period of performance will be extended for an additional 12 months with a total period of performance not to exceed thirty-six months from the date of award.

11. Award Amount: \$97,000.00

Continuation Phases are detailed below:
Continuation Phase 1 - \$38,000
Continuation Phase 2 - \$44,000
Total Value - \$179,000

12. Obligation of federal funds:

Funding in the amount of \$97,000.00 is being provided as follows:

PRAC W81EWF11408936

LINE 0001 - \$97,000.00

LINE OF ACCOUNTING: 057000340000000002121D F1821 EMH3EZ 320.3123 01010000011Z
999900.999961 0208853F 2021 387700 103000000 057000340000000002121D NA B5G
DEAMS00000000000000000006273506 MIPR F2MUA1048GW02

ACRN: AA CIN: W81EWF114089360001

13. Total Approved Cost Sharing, if applicable:

100% USACE funded or detail the cost share arrangement

14. Indirect Cost Rate: 17.5%

15. Administered by: U.S. Army Corps of Engineers, ERDC Contracting Office (ECO) 2902 Newmark Dr. Champaign, IL 61822

16. Terms and Conditions: This Cooperative Agreement is subject to the Department of Defense Research and Development General Terms and Conditions (March 2021) found at:
<https://www.onr.navy.mil/work-with-us/manage-your-award/manage-grant-award/grants-terms-conditions>

17. Reporting Requirements: Reporting requirements are pursuant to the requirements in Parts 5, 6 and 7 of Department of Defense Research and Development General Terms and Conditions (March 2021) found at:
<https://www.onr.navy.mil/work-with-us/manage-your-award/manage-grant-award/grants-terms-conditions>

Quarterly status reports must be submitted to the GOR identified in Section 8 above.

Final performance reports are due within 60 calendar days of expiration of period of performance, or final deadline for the individual task, whichever occurs first.

18. Payments: Payments will be made pursuant to the "Payments" article in Department of Defense Research and Development General Terms and Conditions (March 2021) found at
<https://www.onr.navy.mil/work-with-us/manage-your-award/manage-grant-award/grants-terms-conditions>
by Electronic Funds Transfer (EFT).

In accordance with DoDGARs § 22.205(b), the payment of fee or profit is prohibited with assistance agreements.

19. The payment office is:

Defense Finance and Accounting Services (DFAS)

DFAS -DEAMS

ACCTG DISB STA NR 387700
27 ARKANSAS ROAD
LIMESTONE ME 04751-6216

The following codes for electronic invoicing and payment apply to this agreement:

Payment Office DoDAAC: F87700
Issue by DoDAAC: W9132T
Ship to DoDAAC: W9132T
Admin DoDAAC: W9132T
Fiscal Station Number 387700

The Recipient shall:

- * Submit a 2-in-1 Invoice directly to the WAWF application at <https://piee.eb.mil>.
- * Attach progress reports as required in Section 17 above
- * Attach the final SF425 and DD882 to the final invoice
- ** Send a notification of invoicing to CERL.Invoicing@usace.army.mil.

The Administrative Office and GOR will:

- * Review and provide an approval or rejection recommendation of the Invoice in WAWF within five (5) business days.

20. Government Participation: This research is a collaborative effort between University of Oklahoma and ERDC-CERL.

- a. Recipient Responsibilities: University of Oklahoma responsibilities are as outlined in their technical proposal, any amendments thereto and this Exhibit.
- b. Government Responsibilities: The Government will significantly contribute to the execution of the project. Government participation will consist of providing overall method protocols for research execution, coordinating DoD site access, clarifying project objectives, assisting with interpreting, and evaluating findings, and reviewing results for adequacy.

21. SPECIAL PROVISIONS

Notwithstanding the recipient's technical and cost proposals, the Government's obligation to the recipient is restricted to the funding stated in Paragraph 12 above.

The Recipient shall furnish the personnel reflected in the CESU Technical Proposal received August 17, 2021 incorporated herein by reference, for the performance of this project. Replacement of any personnel may be subject to prior approval pursuant to the clause of this agreement entitled "Revisions requiring prior approval" in Part 2, Article IV, Section B of Department of Defense Research and Development General Terms and Conditions (March 2021) and shall require a two-week prior notification to the GOR. Replacement personnel shall possess not less than an equivalent education/experience level than the originally proposed individual.

THIS COOPERATIVE AGREEMENT IS BEING ENTERED INTO PURSUANT 10 U.S.C. 2358, AS AMENDED.

FOR THE RECIPIENT: The Board of Regents of the University of Oklahoma

Signature

DATE: 9/9/2021

Typed Name: Martha F. Stephens

Title: Director, Pre-Award Services

FOR THE UNITED STATES OF AMERICA:

Andrea J. Thomas
Grants Officer
United States of America

DATE: _____

EXHIBIT 1

Monitoring Population Health and Spatial Ecology of the Texas Horned Lizard on Tinker Air Force Base, Oklahoma.

1. INTRODUCTION: This cooperative agreement is the result of a successful proposal submitted by University of Oklahoma, Department of Natural Resources and Environmental Sciences, entitled “Monitoring Population Health and Spatial Ecology of the Texas Horned Lizard on Tinker Air Force Base, Oklahoma” in response to RSOI: W9132T-21-SOI-0026.

2. OBJECTIVES: The primary objectives of this project are:

- a. Continue long-term monitoring of the Tinker Air Force Base (TAFB) Texas horned lizard population size and density on Wildlife Reserve 3 (WR3) and satellite areas.
- b. Implement cellular tracking technology (CTT) LifeTags for increased data collection across WR3, including tracking headstarted individuals after their release onto WR3 to compare survival rates of headstarted versus wild Texas horned lizards across major life stages (hatchling, juvenile, adult).
- c. Develop a baseline understanding of host gut microbiome diversity and structure in wild and headstarted Texas horned lizards.
- d. Initiate a reptile immunology and pathogen surveillance program to further monitor the health of wild and head started Texas horned lizards on WR3.
- e. Make informed recommendations for management of the Texas horned lizard population on TAFB and communicate results of this study through publications and presentations at meetings.

3. RECIPIENT’S TECHNICAL PROPOSAL: In order to accomplish the work under this cooperative agreement, it shall be necessary for the Recipient to complete the tasks as specified in their technical proposal entitled “Monitoring Population Health and Spatial Ecology of the Texas Horned Lizard on Tinker Air Force Base, Oklahoma”, received August 17, 2021. However, in the event of any discrepancy between the Recipient’s proposal, amendment, and this Exhibit 1, this Exhibit 1 shall govern.

4. PROPOSAL REVISIONS: Proposal revisions are identified herein. This project will be reviewed on a regular basis and revisions may be requested based on the results of the review. In the event it is determined that additional studies will be required beyond the time frame of this agreement, the Recipient may be requested to provide a proposal for continuation of the project and any subsequent work will be funded by modification to this agreement.

a. MEETINGS/REVIEWS: In addition to the meetings identified on page 16 of the Recipient’s proposal, the Recipient shall participate in the following:

- i. Project Kick-off Meeting: A project initiation meeting will be held via Webex or other virtual venue within two (2) weeks after the date of agreement award. Date and time will be scheduled as mutually agreeable between the GOTR and the Recipient.

b. REPORTS/DELIVERABLES: In clarification of the reports and deliverables identified on pages 16 & 17 of the Recipient’s proposal, the Recipient shall submit separate draft and final reports for the base period and each continuation phase that is funded.

c. Project Schedule: The Project Schedule provided in the Recipients proposal (pages 17-18) shall be adjusted to correspond to twelve (12) month Phases based on date of award.

4. ATOPSEC: All contractor and all associated sub-contractors employees shall comply with applicable installation, facility and area commander installation/facility access and local security policies and procedures (provided by

government representative). The contractor shall also provide all information required for background checks to meet installation/facility access requirements to be accomplished by installation Provost Marshal Office, Director of Emergency Services or Security Office. Contractor workforce must comply with all personal identity verification requirements (FAR clause 52.204-9, Personal Identity Verification of Contractor Personnel) as directed by DOD, HQDA and/or local policy. In addition to the changes otherwise authorized by the changes clause of this contract, should the Force Protection Condition (FPCON) at any installation or facility change, the Government may require changes in contractor security matters or processes.

For contractor's who do not require a CAC but require access to a DOB facility or installation. Contractor and all associated sub-contractors employees shall comply with adjudication standards and procedures using the National Crime Information Center Interstate Identification Index (NCIC-III) and Terrorist Screening Database (TSDB) (Army Directive 2014-05 / AR 190-13), applicable installation, facility and area commander installation/facility access and local security policies and procedures (provided by government representative, as NCIC and TSDB are available), or, at OCONUS locations, in accordance with status of forces agreements and other theater regulations.

The Contractor must pre-screen Candidates using the E-verify Program (<http://www.uscis.gov/e-verify>) website to meet the established employment eligibility requirements. The Vendor must ensure that the Candidate has two valid forms of Government issued identification prior to enrollment to ensure the correct information is entered into the E-verify system. An initial list of verified/eligible Candidates must be provided to the COR no later than 3 business days after the initial contract award.