

**Environmental Security Technology Certification Program (ESTCP)**

**IMPROVED THREATENED, ENDANGERED, AND  
AT-RISK SPECIES' MONITORING TOOLS  
FOR IMPROVED TRAINING AND TESTING LAND UTILIZATION**

**OBJECTIVE**

ESTCP projects are sought that result in innovative tools, methodologies, or technologies that improve the Department of Defense (DoD) ability to monitor and influence relevant threatened, endangered, at-risk species (TES) populations, and invasive species. This topic seeks proposals that demonstrate innovative but technically mature technologies, along with associated methodological approaches. ESTCP will give priority to those proposals that address the application of inventory and monitoring technologies and methodologies affecting multiple vertebrate species at DoD installations. Of interest are those technologies and methodologies that can be used to inventory species of particular relevance to the DoD (see Table in Appendix A for list of relevant species).

Proposed technologies and methodologies should have completed all appropriate proof-of-principle work as applicable. ESTCP supports demonstration at a scale sufficient to determine the operational performance of the technology or methodology and to estimate its expected full-scale implementation costs. For proposals involving field work, some species- or site-specific field work may be allowed prior to the actual field demonstration if it can be completed during the first year of the project. Specific DoD site(s) may be suggested in the pre-proposal but are not required to be identified until submittal of the full proposal.

**BACKGROUND**

The DoD manages numerous TES, as well as other species of concern, across roughly 30 million acres. The inability to accurately assess the status of TES populations potentially leads to negative impacts on the DoD's land utilization and ultimately the mission. Depending on the species, its life history, and life stages, successful population assessment can be challenging. These challenges can be especially acute when the species occurs in inaccessible areas or habitat or are cryptic with respect to their surroundings.

**POINT OF CONTACT**

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For pre-proposal submission due dates, instructions, and additional solicitation information, visit the [ESTCP website](#).

**APPENDIX A**

 <b>DoD Priority Species</b>	
11/17/2020	
<b>Priority ESA Listed Species</b>	<b>ESA Status</b>
American burying beetle	Endangered
Black-capped vireo	Delisted
California least tern	Endangered
Desert tortoise	Threatened
Golden-checked warbler	Endangered
Guam orchid	Threatened
Guam Tree Snail	Endangered
Hawaiian goose (Nene)	Endangered
Hawaiian stilt	Endangered
Inyo California towhee	Threatened
Least Bell's vireo	Endangered
Lesser long-nosed bat	Delisted
Mazama pocket gopher	Threatened
Okaloosa darter	Threatened
Red-cockaded woodpecker	Endangered
Riverside Fairy Shrimp	Endangered
San Clemente Island Endemic Species - (6) ( <i>San Clemente loggerhead shrike; San Clemente Bell's sparrow; San Clemente Island paintbrush; San Clemente Island larkspur; San Clemente Island lotus; San Clemente Island bush mallow</i> )	Endangered/Threatened
Stephens' kangaroo rat	Endangered
Streaked Horned Lark	Threatened
Taylor's checkerspot butterfly	Endangered
Tidewater goby	Endangered
Vernal pool fairy shrimp	Endangered
Vernal pool tadpole shrimp	Endangered
Western Snowy Plover	Endangered
<b>Priority "At Risk" Herp Species</b>	
Spotted Turtle	Under Review
Gopher Tortoise	Candidate/Under Review
Eastern Diamond-backed Rattlesnake	Under Review
Northern Red-bellied Cooter	Under Review
Alligator Snapping Turtle	Under Review
Florida Pinesnake	Under Review
Gopher Frog	Under Review
Wood Turtle	Under Review

Western Pond Turtle	Under Review
Blanding's Turtle	Under Review
Western Spadefoot	Under Review
<b>Priority "At Risk" Bird Species</b>	
Greater Sage-Grouse	Not Listed
Greater Prairie-Chicken	Not Listed
Northern Bobwhite	Not Listed
Southeastern American Kestrel	Not Listed
Black Rail	Threatened (Eastern)
Mountain Plover	Not Listed
Burrowing Owl	Not Listed
Least Tern (Atlantic Coast Pop)	Not Listed
Pinyon Jay	Not Listed
Bendire's Thrasher	Not Listed
Golden-winged Warbler	Under Review
Cerulean Warbler	Not Listed
Bachman's Sparrow	Not Listed
Henslow's Sparrow	Not Listed
Tricolored Blackbird	Not Listed
Rusty Blackbird	Not Listed