

Environmental Security Technology Certification Program (ESTCP)

RESOURCE CONSERVATION AND RESILIENCY

Proposals in this topic area should support the sustainability of installations and training and testing areas. Areas of interest include:

Natural Resources

Demonstrate the tools, technologies, and methodologies for the sustainable management of natural resources on DoD installations.

Ecological Systems: Demonstrate the tools, technologies, and methodologies for the management of ecological systems integral to DoD installations to ensure the continued availability of realistic training scenarios and testing conditions while preserving the long-term viability of installation and regional biological diversity and associated ecological processes. Ecological systems of emphasis are forested ecosystems, arid land ecosystems, ecosystems associated with the Pacific Islands and interior Alaska, and coastal and estuarine ecosystems.

Living Marine Resources Ecology and Management: Demonstrate the tools, technologies, and methodologies to monitor and minimize the impacts of military operations on marine mammals and other marine resources.

Species Ecology and Management: Demonstrate the tools, technologies, and methodologies for the active management of invasive species and listed and at-risk species.

Air Quality

Demonstrate the tools, technologies, and methodologies for the active management of fire emissions from both wild fires and prescribed burns to ensure the continued availability and sustainability of training and test ranges. Of particular interest are emerging tools and models that advance the accuracy of emissions productions from fires and transport of emissions in the near field. Demonstrations can include any elements from the emissions production process from fuel characterization, combustion, emissions factor estimation, and transport. Proposals should specifically address how improved technologies, measurements, or modeling will improve the management of emissions and air quality monitoring.

Special Interest Topic

In FY18, ESTCP has issued one topic area for the Resource Conservation and Resiliency program area and one topic area of general interest through a Broad Agency Announcement (BAA) to the private sector:

- Use of Unmanned Aerial Vehicles (UAVs) for Safe and Cost Effective Natural Resources Management on Department of Defense Lands
- Innovative Technology Transfer Approaches

DoD investigators are encouraged to submit proposals through the DoD submittal process that respond to these BAA topic areas. These topics represent areas of particular interest to ESTCP.

Point of Contact

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